OIPE IAP85
NOV 04 2005
PATENT & TRADEMARK OFFICE

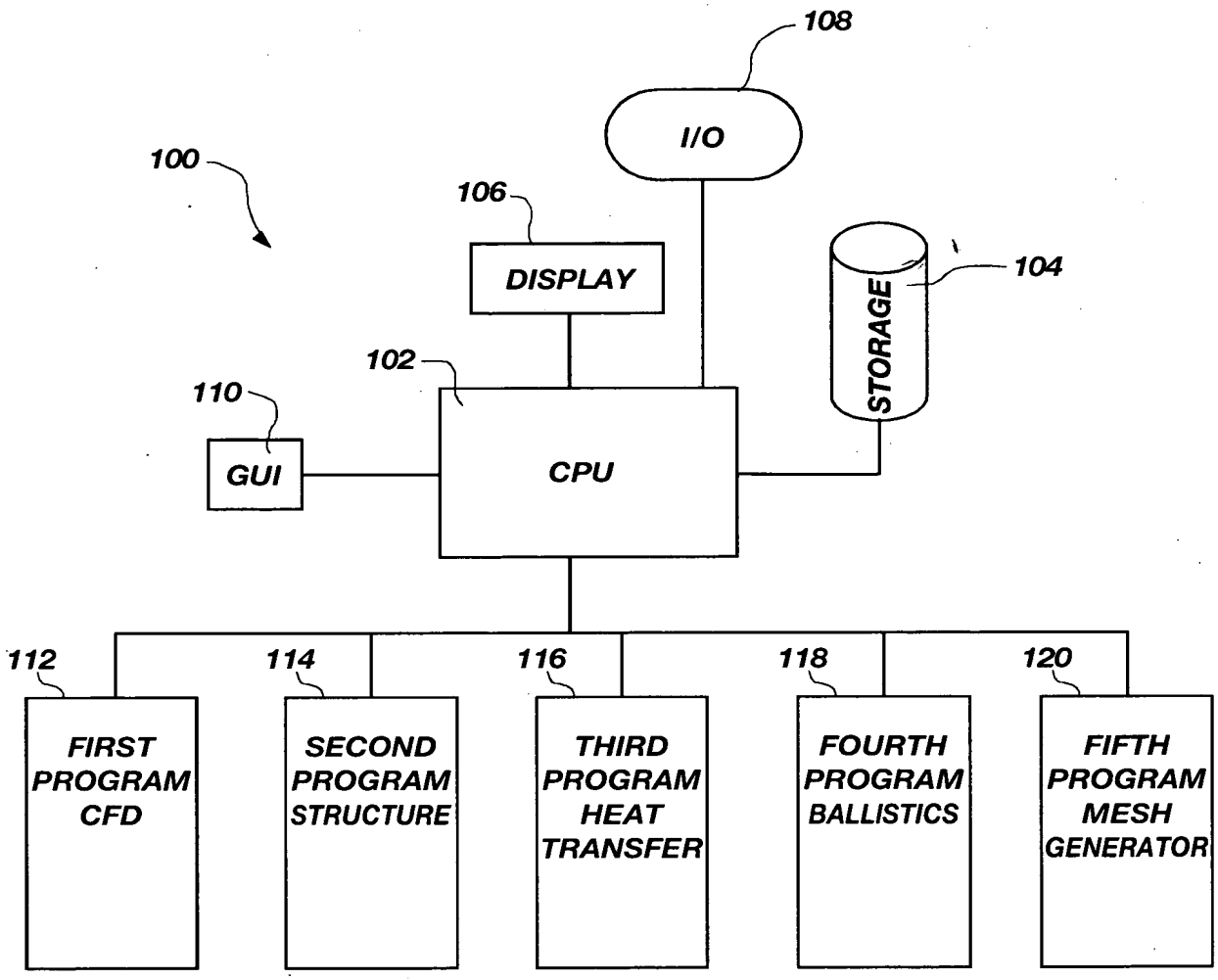


FIG. 1

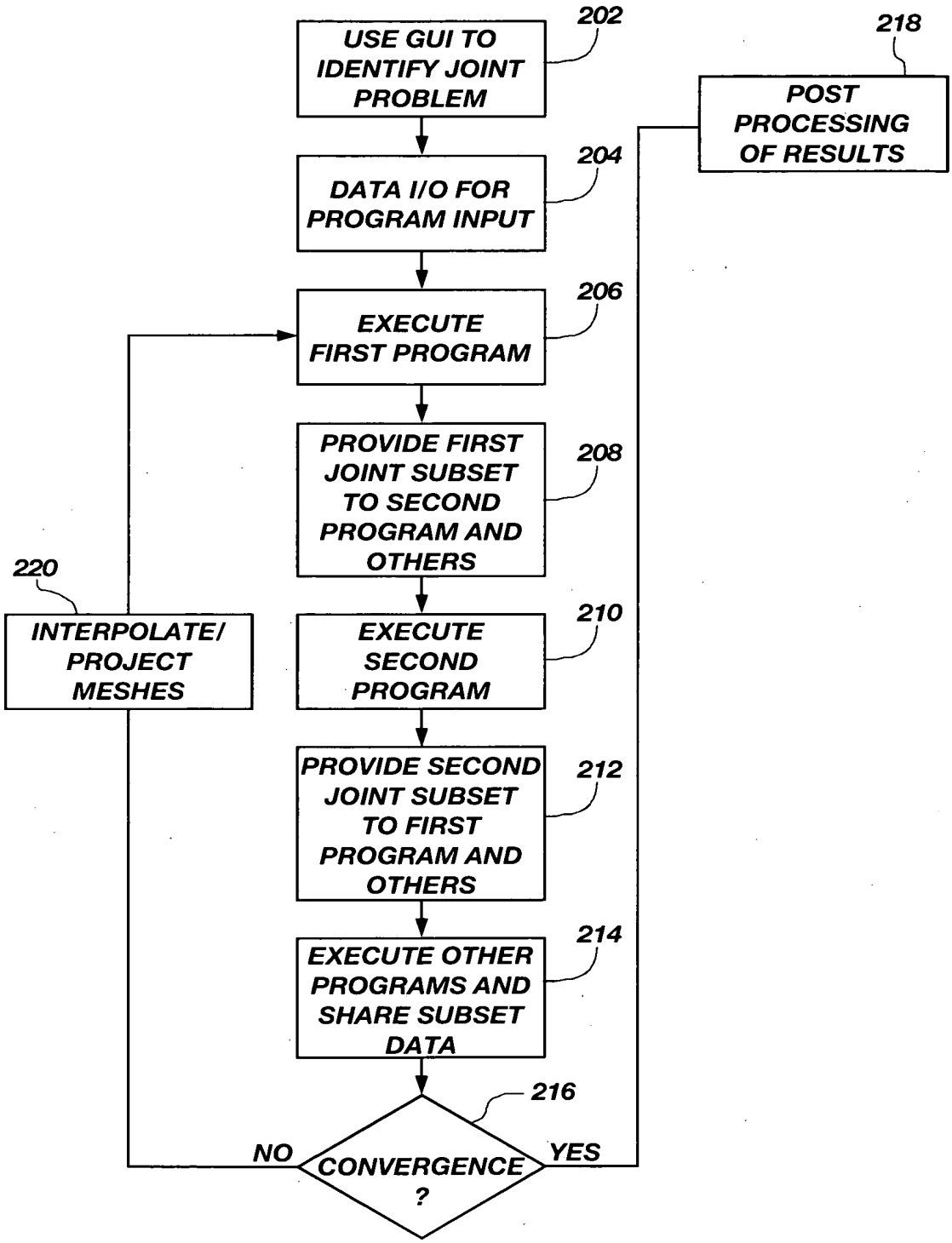

USE GUI TO IDENTIFY JOINT PROBLEM
202
DATA I/O FOR PROGRAM INPUT
204
EXECUTE FIRST PROGRAM
206
PROVIDE FIRST JOINT SUBSET TO SECOND PROGRAM AND OTHERS
208
EXECUTE SECOND PROGRAM
210
PROVIDE SECOND JOINT SUBSET TO FIRST PROGRAM AND OTHERS
212
EXECUTE OTHER PROGRAMS AND SHARE SUBSET DATA
214
CONVERGENCE ?
216
NO
YES
INTERPOLATE/ PROJECT MESHES
220
POST PROCESSING OF RESULTS
218

FIG. 2

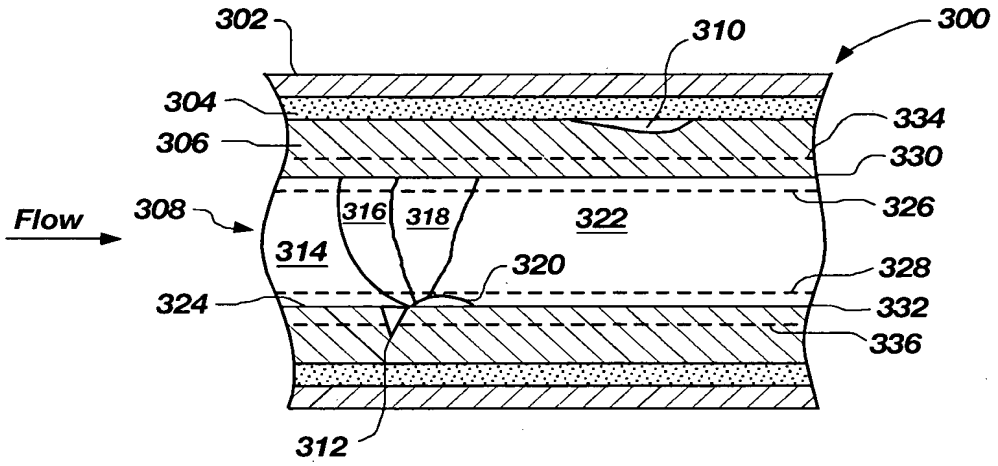

302
310
300
304
334
306
330
Flow
308
316
318
322
326
314
320
328
324
332
336
312

FIG. 3

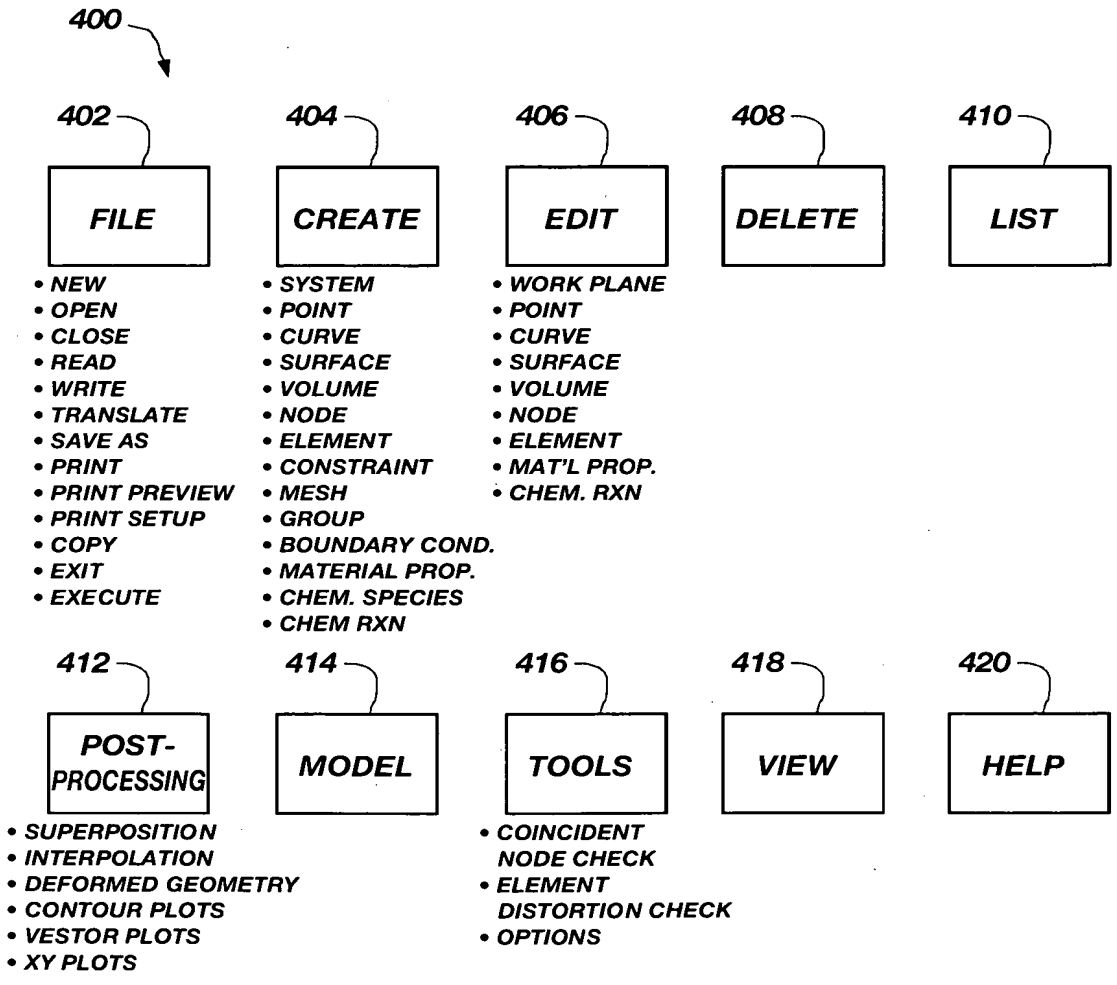

400
402
FILE
• NEW
• OPEN
• CLOSE
• READ
• WRITE
• TRANSLATE
• SAVE AS
• PRINT
• PRINT PREVIEW
• PRINT SETUP
• COPY
• EXIT
• EXECUTE
404
CREATE
• SYSTEM
• POINT
• CURVE
• SURFACE
• VOLUME
• NODE
• ELEMENT
• CONSTRAINT
• MESH
• GROUP
• BOUNDARY COND.
• MATERIAL PROP.
• CHEM. SPECIES
• CHEM RXN
406
EDIT
• WORK PLANE
• POINT
• CURVE
• SURFACE
• VOLUME
• NODE
• ELEMENT
• MAT'L PROP.
• CHEM. RXN
408
DELETE
410
LIST
412
POST-PROCESSING
• SUPERPOSITION
• INTERPOLATION
• DEFORMED GEOMETRY
• CONTOUR PLOTS
• VESTOR PLOTS
• XY PLOTS
414
MODEL
416
TOOLS
• COINCIDENT NODE CHECK
• ELEMENT DISTORTION CHECK
• OPTIONS
418
VIEW
420
HELP

FIG. 4

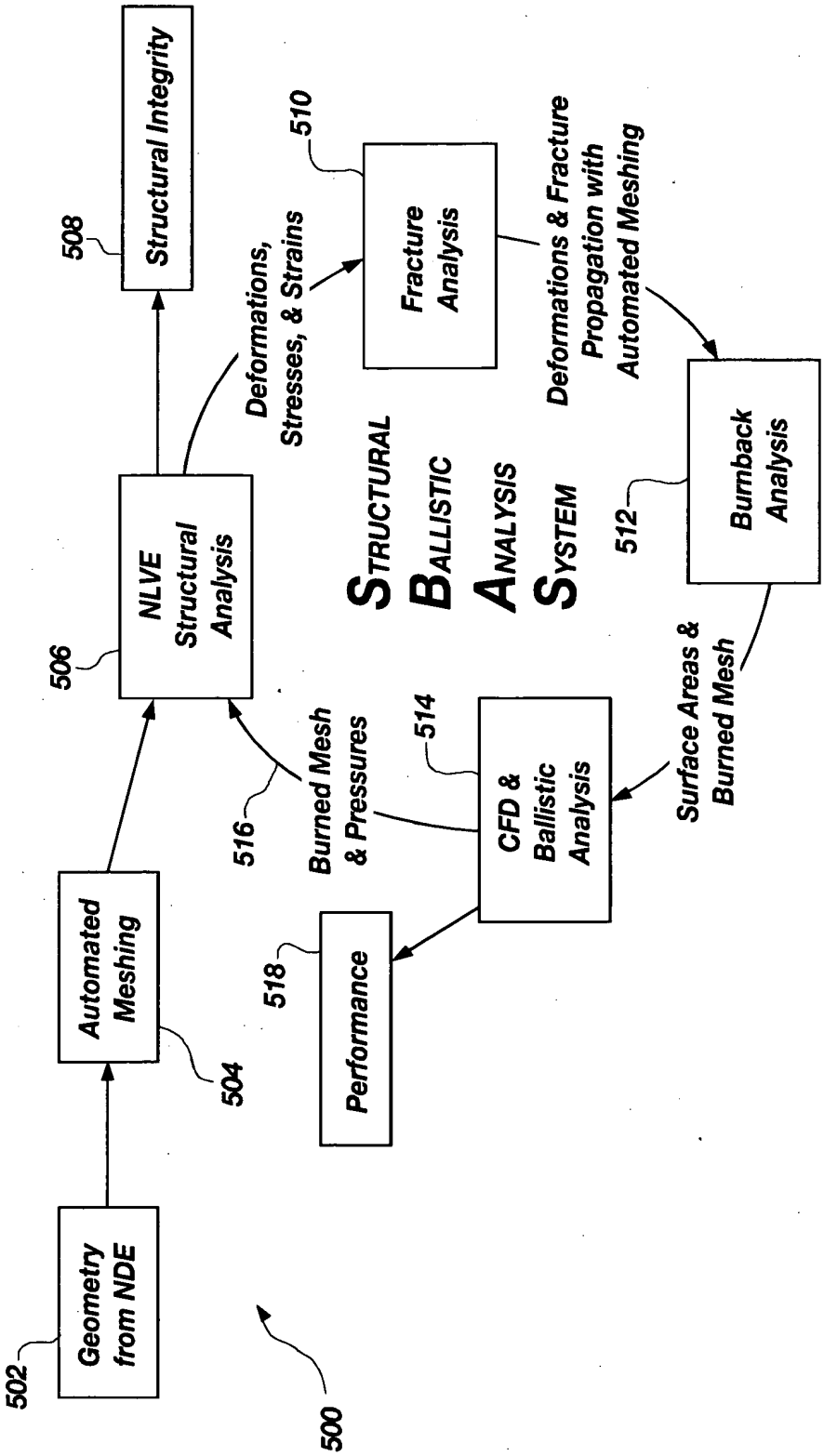

Geometry from NDE
502
Automated Meshing
504
NLVE Structural Analysis
506
Structural Integrity
508
Fracture Analysis
510
Burnback Analysis
512
CFD & Ballistic Analysis
514
Performance
518
Burned Mesh & Pressures
516
Deformations, Stresses, & Strains
Deformations & Fracture Propagation with Automated Meshing
Surface Areas & Burned Mesh
STRUCTURAL BALLISTIC ANALYSIS SYSTEM
500

FIG. 5

Node Key:

- ✕ *Corner and Mid-side node (Required)*
- ○ *Mid-side node (Optional)*
- \+ *Face center node (Optional)*
- ◇ *Element center node (Optional)*

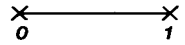
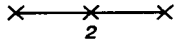
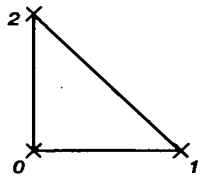
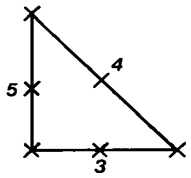
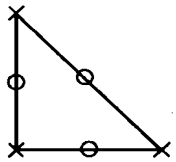
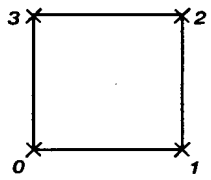
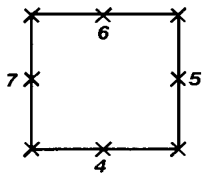
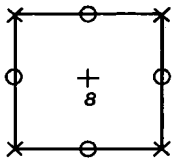
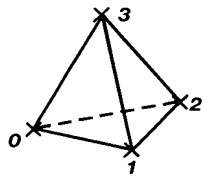
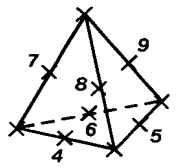
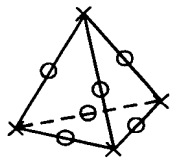
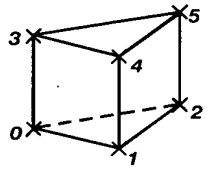
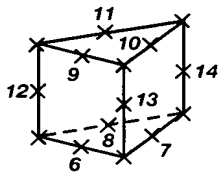
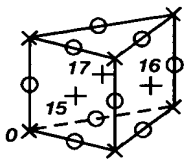
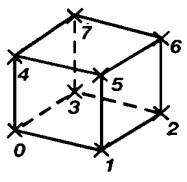
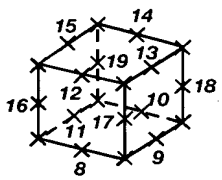
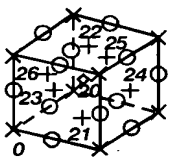
TYPE	LINEAR	PARABOLIC	VARIABLE
Point			
Line			
Triangle *Face 0=0,1, 3* *Face 1=1,2, 4* *Face 2=2,0, 5*			
Quadrilateral *Face 0=0,1, 4* *Face 1=1,2, 5* *Face 2=2,3, 6* *Face 3=3,0, 7*			
Tetrahedron *Face 0=0,2,1 6,5,4* *Face 1=0,1,3 4,8,7* *Face 2=1,2,3 5,9,8* *Face 3=2,0,3 6,7,9*			
Wedge *Face 0=0,2,1 8,7,6* *Face 1=3,4,5 9,10,11* *Face 2=0,1,4,3 6,13,9,12,15* *Face 3=1,2,5,4 7,14,10,13,16* *Face 4=2,0,3,5, 8,12,11,14,17*			
Brick *Face 0=0,3,2,1 11,10,9,8,21* *Face 1=4,5,6,7, 12,13,14,15,22* *Face 2=0,1,5,4, 8,17,12,16,23* *Face 3=1,2,6,5, 9,18,13,17,24* *Face 4=2,3,7,6, 10,19,14,18,25* *Face 5=3,0,4,7, 11,16,15,19,26*			

FIG. 6

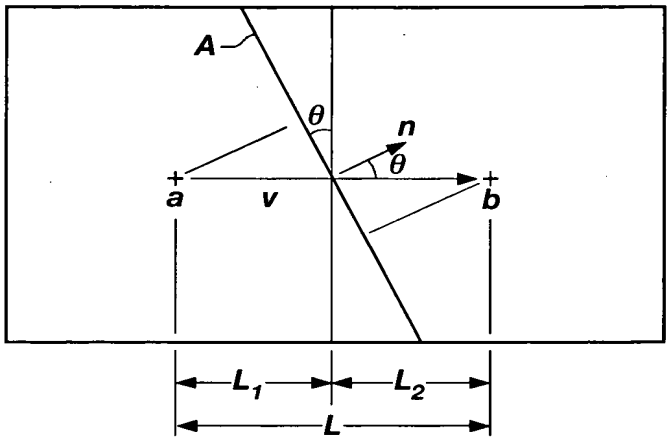


FIG. 7

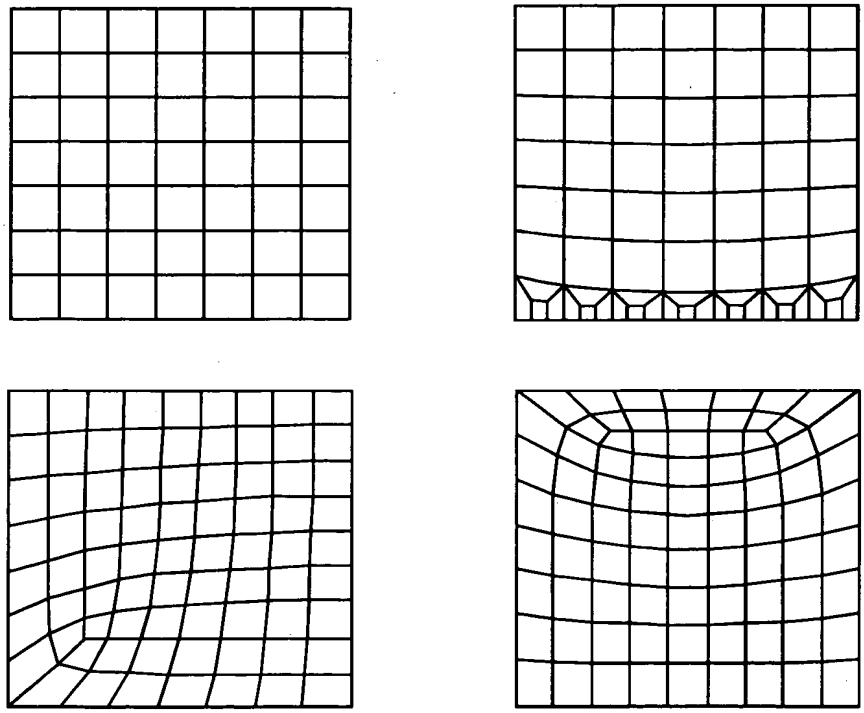


FIG. 8

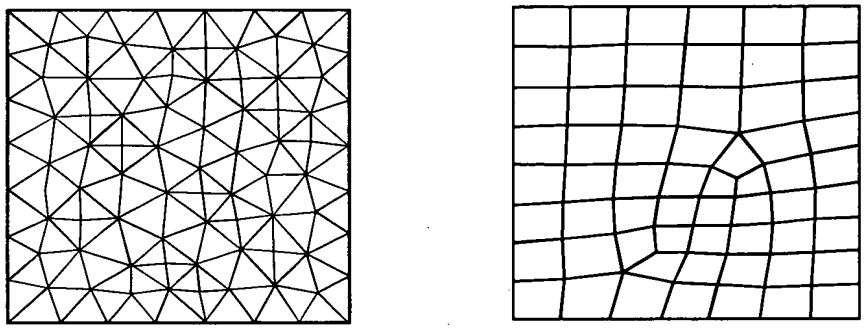


FIG. 9

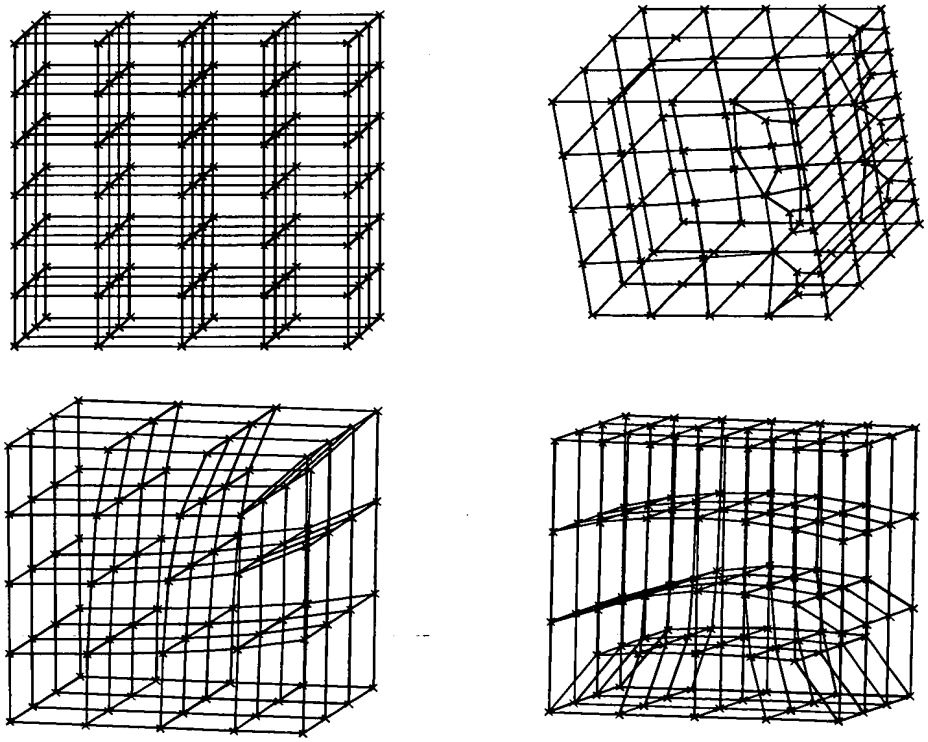


FIG. 10

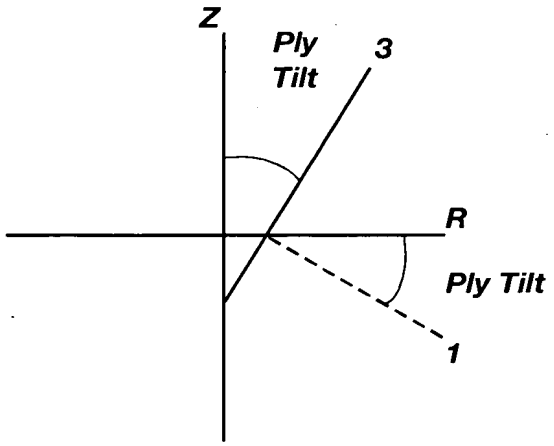


FIG. 11

Exploring -D:\

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
Ccm		File Folder	9/21/01 9:21 AM
Cdca		File Folder	9/21/01 9:21 AM
FEM Builder 1.2		File Folder	9/21/01 9:21 AM
Recess		File Folder	9/21/01 9:21 AM
inst32i.ex	294KB	EX_File	11/19/97 4:05 PM
_isdel.exe	8KB	Application	11/19/97 4:05 PM
_setup.dll	11KB	Application Extension	11/19/97 4:08 PM
_sys1.cab	187KB	Cabinet	9/21/01 8:29 AM
_user1.cab	50KB	Cabinet	9/21/01 8:29 AM
Data.tag	1KB	TAG File	9/21/01 8:29 AM
data1.cab	129KB	Cabinet	9/21/01 8:29 AM
lang.dat	5KB	Movie Clip	5/30/97 11:31 AM
layout.bin	1KB	BIN File	9/21/01 8:29 AM
Mscreate.dir	0KB	Macromedia Director..	9/26/00 12:45 PM
os.dat	1KB	Movie Clip	5/6/97 2:15 PM
py152.exe	4,911KB	Application	7/16/99 10:54 AM
setup.bmp	81KB	Bitmap Image	9/17/01 11:32 AM
Setup.exe	59KB	Application	11/19/97 4:09 PM
Setup.ini	1KB	Configuration Settings	9/21/01 8:29 AM
Setup.lns	58KB	Internet Communicati...	9/21/01 8:28 AM
setup.lid	1KB	LID File	9/21/01 8:29 AM
win32all-125.exe	2,953KB	Application	2/22/00 10:51 AM

22 object(s) | 8.54MB (Disk free space: 0 bytes) | My Computer

FIG. 12

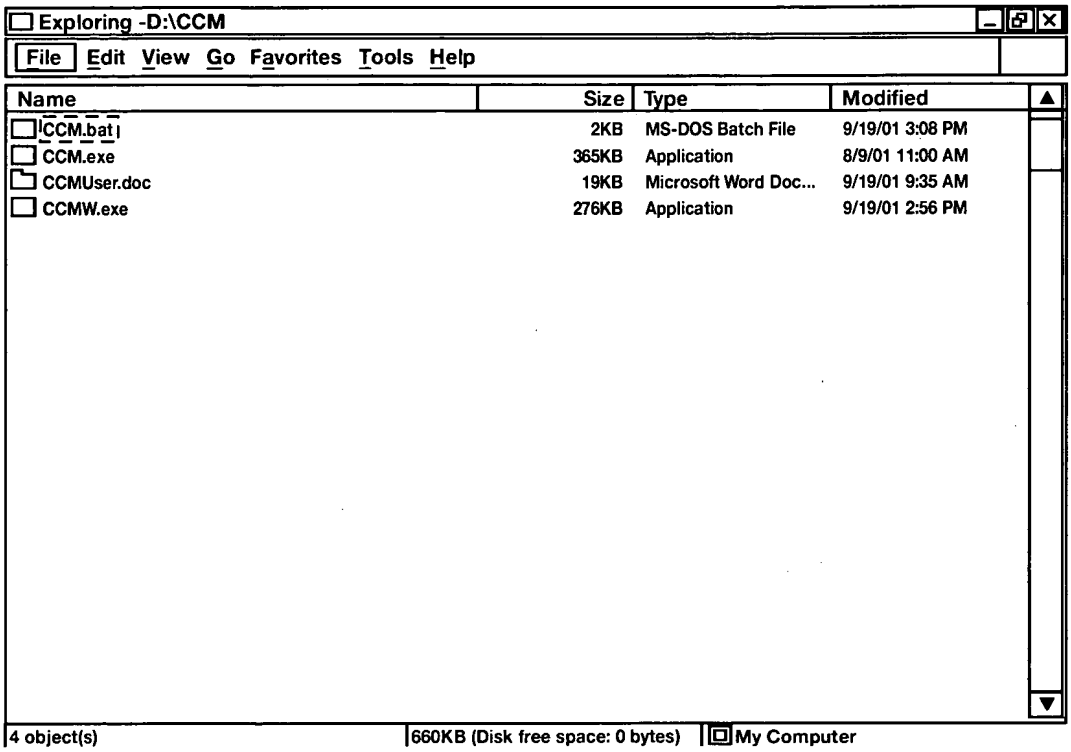

Exploring -D:\CCM
File Edit View Go Favorites Tools Help
Name Size Type Modified
CCM.bat 2KB MS-DOS Batch File 9/19/01 3:08 PM
CCM.exe 365KB Application 8/9/01 11:00 AM
CCMUser.doc 19KB Microsoft Word Doc... 9/19/01 9:35 AM
CCMW.exe 276KB Application 9/19/01 2:56 PM
4 object(s)
660KB (Disk free space: 0 bytes)
My Computer

FIG. 13

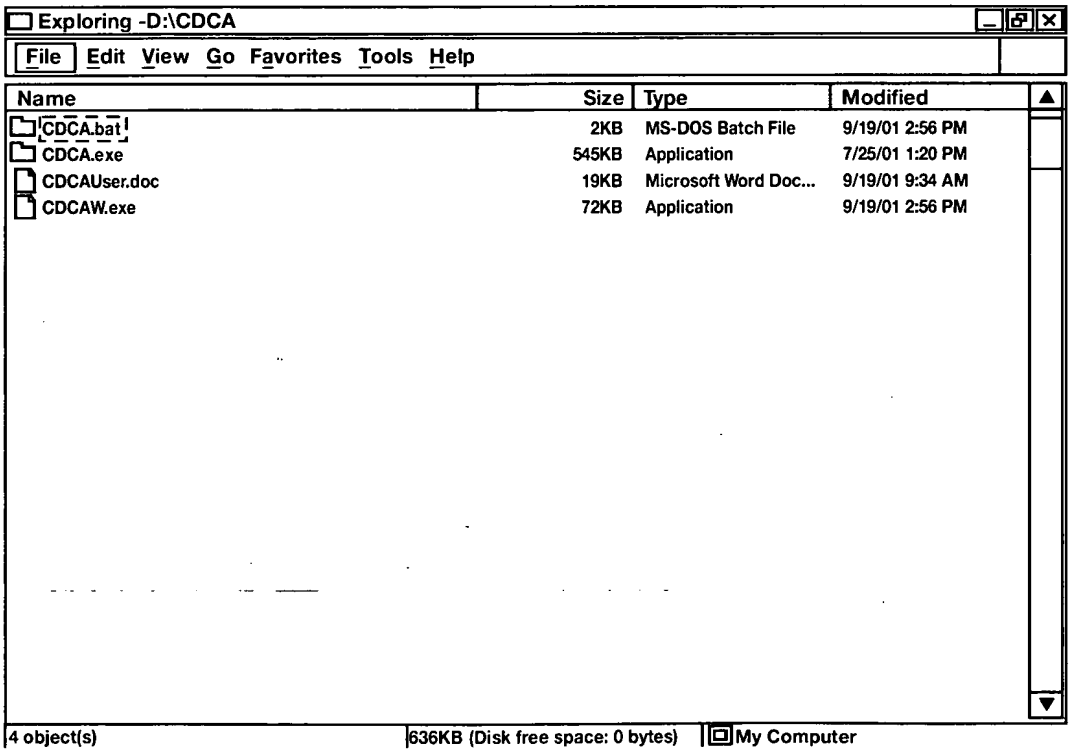

Exploring -D:\CDCA
File Edit View Go Favorites Tools Help
Name Size Type Modified
CDCA.bat 2KB MS-DOS Batch File 9/19/01 2:56 PM
CDCA.exe 545KB Application 7/25/01 1:20 PM
CDCAUser.doc 19KB Microsoft Word Doc... 9/19/01 9:34 AM
CDCAW.exe 72KB Application 9/19/01 2:56 PM
4 object(s)
636KB (Disk free space: 0 bytes)
My Computer

FIG. 14

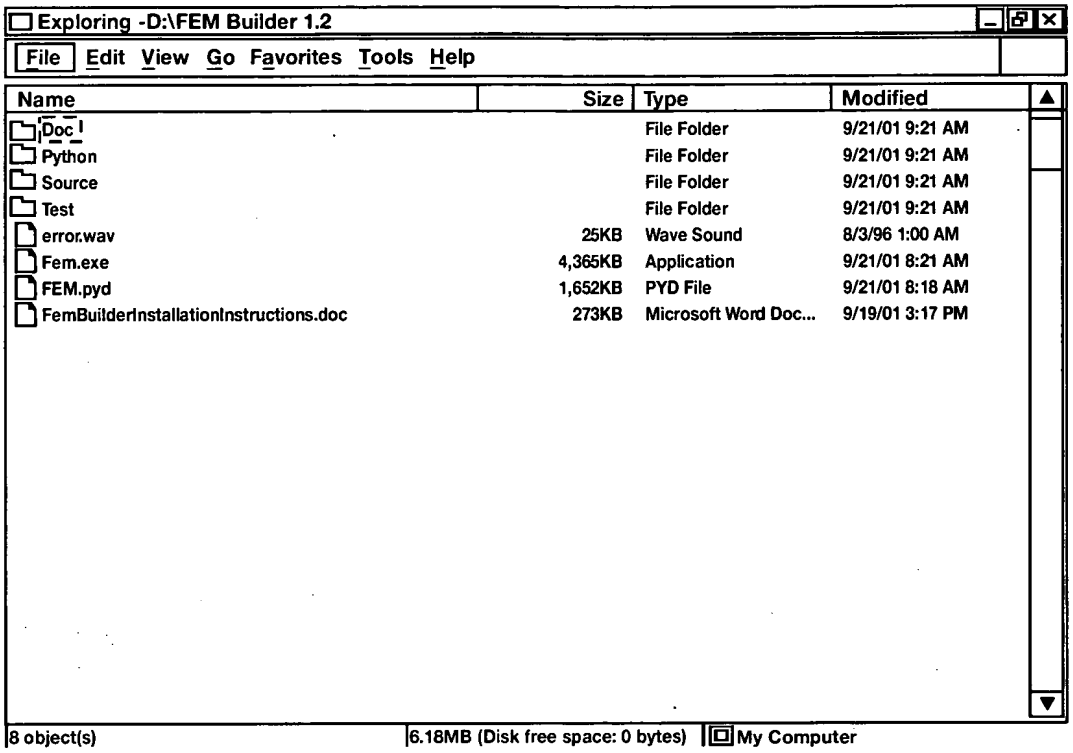

Exploring -D:\FEM Builder 1.2
File Edit View Go Favorites Tools Help
Name Size Type Modified
Doc File Folder 9/21/01 9:21 AM
Python File Folder 9/21/01 9:21 AM
Source File Folder 9/21/01 9:21 AM
Test File Folder 9/21/01 9:21 AM
error.wav 25KB Wave Sound 8/3/96 1:00 AM
Fem.exe 4,365KB Application 9/21/01 8:21 AM
FEM.pyd 1,652KB PYD File 9/21/01 8:18 AM
FemBuilderInstallationInstructions.doc 273KB Microsoft Word Doc... 9/19/01 3:17 PM
8 object(s)
6.18MB (Disk free space: 0 bytes)
My Computer

FIG. 15

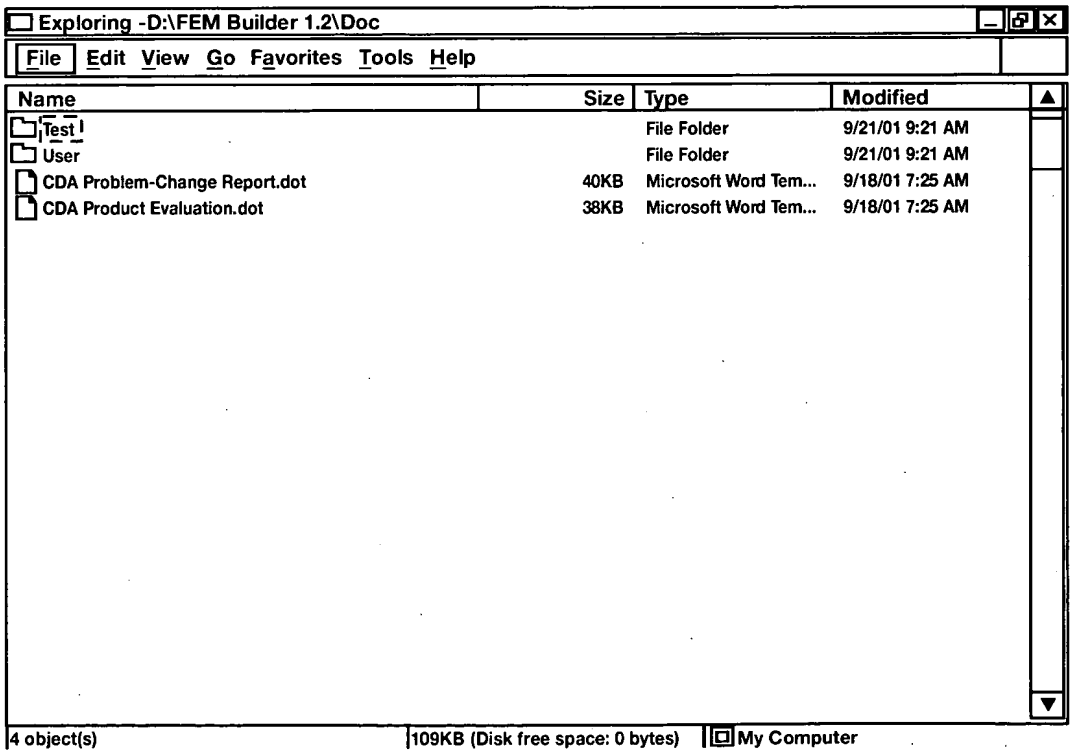

Exploring -D:\FEM Builder 1.2\Doc
File Edit View Go Favorites Tools Help
Name Size Type Modified
Test File Folder 9/21/01 9:21 AM
User File Folder 9/21/01 9:21 AM
CDA Problem-Change Report.dot 40KB Microsoft Word Tem... 9/18/01 7:25 AM
CDA Product Evaluation.dot 38KB Microsoft Word Tem... 9/18/01 7:25 AM
4 object(s)
109KB (Disk free space: 0 bytes)
My Computer

FIG. 16

Exploring -D:\FEM Builder 1.2\Doc\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FEMBuilderTest.doc	168KB	Microsoft Word Doc...	9/18/01 7:09 AM
FEMBuilderTestCoincidentNode_1.doc	43KB	Microsoft Word Doc...	9/20/01 10:38 AM
FEMBuilderTestConstrain2d_1.doc	79KB	Microsoft Word Doc...	9/20/01 10:38 AM
FEMBuilderTestConstrain2d_2.doc	76KB	Microsoft Word Doc...	9/20/01 10:38 AM
FEMBuilderTestConstrain2d_3.doc	77KB	Microsoft Word Doc...	9/20/01 10:38 AM
FEMBuilderTestConstrain3d_1.doc	117KB	Microsoft Word Doc...	9/20/01 10:38 AM
FEMBuilderTestConstrain3d_2.doc	91KB	Microsoft Word Doc...	9/20/01 10:38 AM
FEMBuilderTestConstrain3d_3.doc	102KB	Microsoft Word Doc...	9/20/01 10:38 AM
FEMBuilderTestCopyPrint_1.doc	96KB	Microsoft Word Doc...	9/20/01 10:38 AM
FEMBuilderTestCopyPrint_2.doc	28KB	Microsoft Word Doc...	9/20/01 10:38 AM
FEMBuilderTestCreateBC_1.doc	111KB	Microsoft Word Doc...	9/20/01 10:38 AM
FEMBuilderTestCreateBC_10.doc	49KB	Microsoft Word Doc...	9/18/01 7:09 AM
FEMBuilderTestCreateBC_11.doc	49KB	Microsoft Word Doc...	9/18/01 7:09 AM
FEMBuilderTestCreateBC_12.doc	98KB	Microsoft Word Doc...	9/20/01 10:38 AM
FEMBuilderTestCreateBC_13.doc	56KB	Microsoft Word Doc...	9/18/01 7:09 AM
FEMBuilderTestCreateBC_2.doc	41KB	Microsoft Word Doc...	9/18/01 7:09 AM
FEMBuilderTestCreateBC_3.doc	39KB	Microsoft Word Doc...	9/20/01 10:38 AM
FEMBuilderTestCreateBC_4.doc	38KB	Microsoft Word Doc...	9/18/01 7:09 AM
FEMBuilderTestCreateBC_5.doc	47KB	Microsoft Word Doc...	9/18/01 7:09 AM
FEMBuilderTestCreateBC_6.doc	39KB	Microsoft Word Doc...	9/20/01 10:38 AM
FEMBuilderTestCreateBC_7.doc	41KB	Microsoft Word Doc...	9/18/01 7:09 AM
FEMBuilderTestCreateBC_8.doc	40KB	Microsoft Word Doc...	9/18/01 7:09 AM
FEMBuilderTestCreateBC_9.doc	48KB	Microsoft Word Doc...	9/18/01 7:09 AM

210 object(s) | 13.6MB (Disk free space: 0 bytes) | My Computer

FIG. 17

Exploring -D:\FEM Builder 1.2\Doc\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FEMBuilderTestCreateChemReaction_1.doc	32KB	Microsoft Word Doc...	9/18/01 7:09 AM
FEMBuilderTestCreateGeometry_1.doc	130KB	Microsoft Word Doc...	9/18/01 7:09 AM
FEMBuilderTestCreateGeometry_2.doc	108KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestCreateGeometry_3.doc	109KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestCreateGeometry_4.doc	109KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestCreateGeometry_5.doc	148KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestCreateGeometry_6.doc	59KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestCreateIC_1.doc	106KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestCreateSystem_1.doc	44KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestDeform_1.doc	39KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestDeform_2.doc	40KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestDeform_3.doc	37KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestDeleteBCs_1.doc	412KB	Microsoft Word Doc...	9/18/01 7:09 AM
FEMBuilderTestDeDeleteMaterial_1.doc	36KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestDeleteSystem_1.doc	73KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestDistortionCheck2d_1.doc	56KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestDistortionCheck3d_1.doc	66KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestEditBCColor_1.doc	28KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestEditCurve_1.doc	87KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestEditCurve_2.doc	126KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestEditCurve_1.doc	69KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestEditElementOrientation_1.doc	76KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestEditElementOrientation_2.doc	118KB	Microsoft Word Doc...	9/18/01 7:10 AM

210 object(s) | 13.6MB (Disk free space: 0 bytes) | My Computer

FIG. 18

Exploring -D:\FEM Builder 1.2\Doc\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FEMBuilderTestInsertFlaw2D_2.doc	69KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestInterfaceAbaqus_1.doc	30KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestInterfaceAbaqus_2.doc	28KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestInterfaceAnsys_1.doc	73KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestInterfaceAnsys_2.doc	44KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestInterfaceAschar_1.doc	100KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestInterfaceAschar_2.doc	51KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestInterfaceFemDB_1.doc	28KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestInterfaceFemDB_2.doc	27KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestInterfaceFluent_1.doc	31KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestInterfaceFluent_2.doc	98KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestInterfaceGridGen_1.doc	28KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestInterfaceGridGen_2.doc	36KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestInterfaceIdeas_1.doc	44KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestInterfaceIdeas_2.doc	29KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestInterfaceMaterialProperty_1.doc	29KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestInterfacePatran_1.doc	46KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestInterfaceRdCCm_1.doc	30KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestInterfaceRdCCm_2.doc	31KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestInterfaceRdCDCA_1.doc	30KB	Microsoft Word Doc...	9/20/01 12:26 PM
FEMBuilderTestInterfaceRdCDCA_2.doc	31KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestInterfaceRdRecess_1-10.doc	36KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestInterfaceRdSharp_1.doc	42KB	Microsoft Word Doc...	9/18/01 12:26 PM

210 object(s) | 13.6MB (Disk free space: 0 bytes) | My Computer

FIG. 19

Exploring -D:\FEM Builder 1.2\Doc\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FEMBuilderTestEditMeshAttribute_1.doc	37KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestEditNode_1.doc	68KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestEditWorkplane_1.doc	32KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestEditWorkplane_2.doc	42KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestExecuteAbaqus_1.doc	36KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestExecuteCCM_1.doc	32KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestExecuteCDCA_1.doc	33KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestExecuteFluent_1.doc	37KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestExecuteRecess_1.doc	33KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestFemCreate_1.doc	80KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestFemCreateGroup.doc	49KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestFemDelete_1.doc	93KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestFemDelete_2.doc	36KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestFemEditColor_1.doc	91KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestFracture_1.doc	105KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestFracture_2.doc	65KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestFracture_3.doc	71KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestFracture_4.doc	112KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestGeometryCreateGroup.doc	55KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestGeometryDelete_1.doc	154KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestGeometryEditColor_1.doc	175KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestHelp_1.doc	23KB	Microsoft Word Doc...	9/18/01 7:10 AM
FEMBuilderTestInsertFlaw2D_1.doc	77KB	Microsoft Word Doc...	9/18/01 7:10 AM

210 object(s) | 13.6MB (Disk free space: 0 bytes) | My Computer

FIG. 20

Exploring -D:\FEM Builder 1.2\Doc\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FEMBuilderTestInterfaceRdSharp_2.doc	42KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestInterfaceRdSharp_3.doc	42KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestInterfaceRdSharp_4.doc	99KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestInterfaceRdSinda_1.doc	28KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestInterfaceRdSinda_2.doc	28KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestInterfaceRdTexChem_1.doc	27KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestInterfaceRwRecess_1.doc	31KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestInterfaceRwRecess_2.doc	33KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestInterfaceRwRecess_3.doc	34KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestInterfaceRwRecess_4.doc	34KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestInterfaceWrCCM_1.doc	30KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestInterfaceWrCCM_2.doc	31KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestInterfaceWrCDCA_1.doc	30KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestInterfaceWrCDCA_2.doc	30KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestInterfaceWrRecess_1.doc	32KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestInterfaceWrRecess_2.doc	41KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestInterfaceWrRecess_3.doc	41KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestInterfaceWrRecess_4.doc	45KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestInterfaceWrRecess_5.doc	46KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestInterfaceWrSinda_1.doc	28KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestInterfaceWrSinda_2.doc	28KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestInterfaceWrTexChem_1.doc	28KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestInterpolateResults_1.doc	50KB	Microsoft Word Doc...	9/18/01 7:11 AM

210 object(s) | 13.6MB (Disk free space: 0 bytes) | My Computer

FIG. 21

Exploring -D:\FEM Builder 1.2\Doc\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FEMBuilderTestList_1.doc	34KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestList_2.doc	44KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestList_3.doc	37KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestListBC_1.doc	111KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestListBC_2.doc	52KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestMaterialProperty_1.doc	38KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestMaterialProperty_2.doc	26KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestMaterialProperty_3.doc	23KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestMesh2d_1-12.doc	280KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestMesh2d_13.doc	133KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestMesh3d_13.doc	107KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestMesh3d_14.doc	106KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestMesh3d_1-8.doc	310KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestModel_1.doc	256KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestModelSweep_1.doc	69KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestModelSweep_2.doc	62KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestModelSweep_3.doc	49KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestModelSweep_4.doc	62KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestMoveCopy_1.doc	55KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestMoveCopy_10.doc	63KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestMoveCopy_11.doc	52KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestMoveCopy_2.doc	57KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestMoveCopy_3.doc	56KB	Microsoft Word Doc...	9/18/01 12:26 PM

210 object(s) | 13.6MB (Disk free space: 0 bytes) | My Computer

FIG. 22

Exploring -D:\FEM Builder 1.2\Doc\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FEMBuilderTestMoveCopy_4.doc	60KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestMoveCopy_5.doc	56KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestMoveCopy_6.doc	67KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestMoveCopy_7.doc	84KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestMoveCopy_8.doc	53KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestMoveCopy_9.doc	50KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestPostAverageResult.doc	80KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestPostContour_1.doc	97KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestPostContour_2.doc	32KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestPostDeform.doc	41KB	Microsoft Word Doc...	9/20/01 10:38 AM
FEMBuilderTestPostResults_1.doc	46KB	Microsoft Word Doc...	9/20/01 10:38 AM
FEMBuilderTestPostResults_2.doc	33KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestPostResults_3.doc	23KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestPostResults_4.doc	25KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestPostResults_5.doc	25KB	Microsoft Word Doc...	9/18/01 7:11 AM
FEMBuilderTestPostVector.doc	32KB	Microsoft Word Doc...	9/20/01 10:38 AM
FEMBuilderTestPostXYPlot_1.doc	34KB	Microsoft Word Doc...	9/21/01 8:15 AM
FEMBuilderTestPostXYPlot_2.doc	27KB	Microsoft Word Doc...	9/20/01 10:38 AM
FEMBuilderTestPostXYPlot_3.doc	28KB	Microsoft Word Doc...	9/20/01 10:38 AM
FEMBuilderTestPostXYPlot_4.doc	62KB	Microsoft Word Doc...	9/21/01 8:15 AM
FEMBuilderTestPostXYPlot_5.doc	48KB	Microsoft Word Doc...	9/21/01 7:32 AM
FEMBuilderTestPostXYPlot_6.doc	133KB	Microsoft Word Doc...	9/21/01 8:15 AM
FEMBuilderTestPostXYPlot_7.doc	32KB	Microsoft Word Doc...	9/21/01 8:15 AM

210 object(s) | 13.6MB (Disk free space: 0 bytes) | My Computer

FIG. 23

Exploring -D:\FEM Builder 1.2\Doc\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FEMBuilderTestPostXYPlot_8.doc	143KB	Microsoft Word Doc...	9/21/01 7:07 AM
FEMBuilderTestPostXYPlot_9.doc	102KB	Microsoft Word Doc...	9/21/01 7:07 AM
FEMBuilderTestRefineMesh_1.doc	164KB	Microsoft Word Doc...	9/20/01 10:38 AM
FEMBuilderTestRefineMesh_2.doc	81KB	Microsoft Word Doc...	9/20/01 10:38 AM
FEMBuilderTestRefineMesh_3.doc	86KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestRefineMesh_4.doc	83KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestRefineMesh_5.doc	64KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestSelectAnalysisresults_1.doc	35KB	Microsoft Word Doc...	9/20/01 10:38 AM
FEMBuilderTestSelectCurve_1.doc	55KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestSelectElement_1.doc	152KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestSelectFace_1.doc	56KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestSelectGroup_1.doc	27KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestSelectMaterialProperties_1.doc	28KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestSelectNode_1.doc	159KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestSelectPoint_1.doc	51KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestSelectSurface_1.doc	65KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestSelectSystem_1.doc	28KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestSelectVolume_1.doc	80KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestSmooth2d_1.doc	35KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestSmooth2d_2.doc	37KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestSmooth2d_3.doc	42KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestSolverLess2d_1.doc	271KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardAxisym1.doc	28KB	Microsoft Word Doc...	9/18/01 7:12 AM

210 object(s) | 13.6MB (Disk free space: 0 bytes) | My Computer

FIG. 24

Exploring -D:\FEM Builder 1.2\Doc\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FEMBuilderTestStandardEdgeNotched2D.doc	164KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardEdgeNotched3D.doc	217KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardFluidCFD1.doc	36KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardHeat0.doc	44KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardHeat1.doc	47KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardHTAxisym1.doc	50KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardNozzle1.doc	38KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardPlaneE1.doc	25KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardPlaneE2.doc	30KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardPlaneS1.doc	25KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardPlaneS2.doc	30KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardSolid1L.doc	26KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardSolid1Q.doc	27KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardSolidCFD1.doc	36KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestSubModel_1.doc	53KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestSubModel_2.doc	51KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestSubModel_3.doc	54KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestThermalAblation_1.doc	68KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestThermalAblation_2.doc	100KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestToolsOptions_1.doc	28KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestViewBlankUnblank_1.doc	65KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestViewDisplaySettings_1.doc	252KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestViewOrientation_1.doc	41KB	Microsoft Word Doc...	9/18/01 7:12 AM

210 object(s) | 13.6MB (Disk free space: 0 bytes) | My Computer

FIG. 25

Exploring -D:\FEM Builder 1.2\Doc\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FEMBuilderTestStandardHeat1.doc	47KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardHTAxisym1.doc	50KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTesStandardNozzle1.doc	38KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardPlaneE1.doc	25KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardPlaneE2.doc	30KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardPlaneS1.doc	25KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardPlaneS2.doc	30KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardSolid1L.doc	26KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardSolid1Q.doc	27KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestStandardSolidCFD1.doc	36KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestSubModel_1.doc	53KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestSubModel_2.doc	51KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestSubModel_3.doc	54KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestThermalAblation_1.doc	68KB	Microsoft Word Doc...	9/18/01 12:26 PM
FEMBuilderTestThermalAblation_2.doc	100KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestToolsOptions_1.doc	28KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestViewBlankUnblank_1.doc	65KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestViewDisplaySettings_1.doc	252KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestViewOrientation_1.doc	41KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestViewOrientation_2.doc	228KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestViewOrientation_3.doc	69KB	Microsoft Word Doc...	9/18/01 7:12 AM
FEMBuilderTestViewScreenOptions_1.doc	59KB	Microsoft Word Doc...	9/18/01 7:12 AM

210 object(s) | 13.6MB (Disk free space: 0 bytes) | My Computer

FIG. 26

Exploring -D:\FEM Builder 1.2\Doc\User

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
IFEMBuilderPython.doc	410KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderSolvers.doc	23KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderSolversLess2D.doc	400KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderTraining.doc	597KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUser.doc	111KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserAbaqusInterface.doc	54KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserAnsysInterface.doc	51KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserAppendixAbaqusSupport.doc	111KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserAppendixAnsysSupport.doc	173KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserAppendixElementLibrary.doc	256KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserAppendixMatProperties.doc	40KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserAppendixSelection.doc	65KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserAscharInterface.doc	24KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserCDCA-CCMInterface.doc	39KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserChemicalProperties.doc	25KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserCreateFEM.doc	102KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserCreateGeometry.doc	38KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserDeleteFEM.doc	25KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserDeleteGeometry.doc	25KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserEditFEM.doc	46KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserEditGeometry.doc	32KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserExecution.doc	48KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserFluentInterface.doc	43KB	Microsoft Word Doc...	9/17/01 11:34 AM

44 object(s) | 3.98MB (Disk free space: 0 bytes) | My Computer

FIG. 27

Exploring -D:\FEM Builder 1.2\Doc\User

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FEMBuilderUserFluentInterface.doc	43KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserGridGenInterface.doc	23KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserIdeasMSInterface.doc	30KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserIntroduction.doc	43KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserListFEM.doc	25KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserListGeometry.doc	26KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserMaterialProperties.doc	29KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserMeshGeneration.doc	148KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserOverview.doc	41KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserPatranInterface.doc	64KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserPostFractureMechanics.doc	181KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserPostResultCalculation.doc	28KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserPostResultDisplay.doc	40KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserPostXYPlotParameters.doc	27KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserReadSharpInterface.doc	26KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserRecessInterface.doc	45KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserSindalnterface.doc	42KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserSinGenInterface.doc	23KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserTexChemInterface.doc	24KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserThermalAblation.doc	306KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserTools.doc	151KB	Microsoft Word Doc...	9/17/01 11:34 AM
FEMBuilderUserView.doc	30KB	Microsoft Word Doc...	9/17/01 11:34 AM

44 object(s) | 3.98MB (Disk free space: 0 bytes) | My Computer

FIG. 28

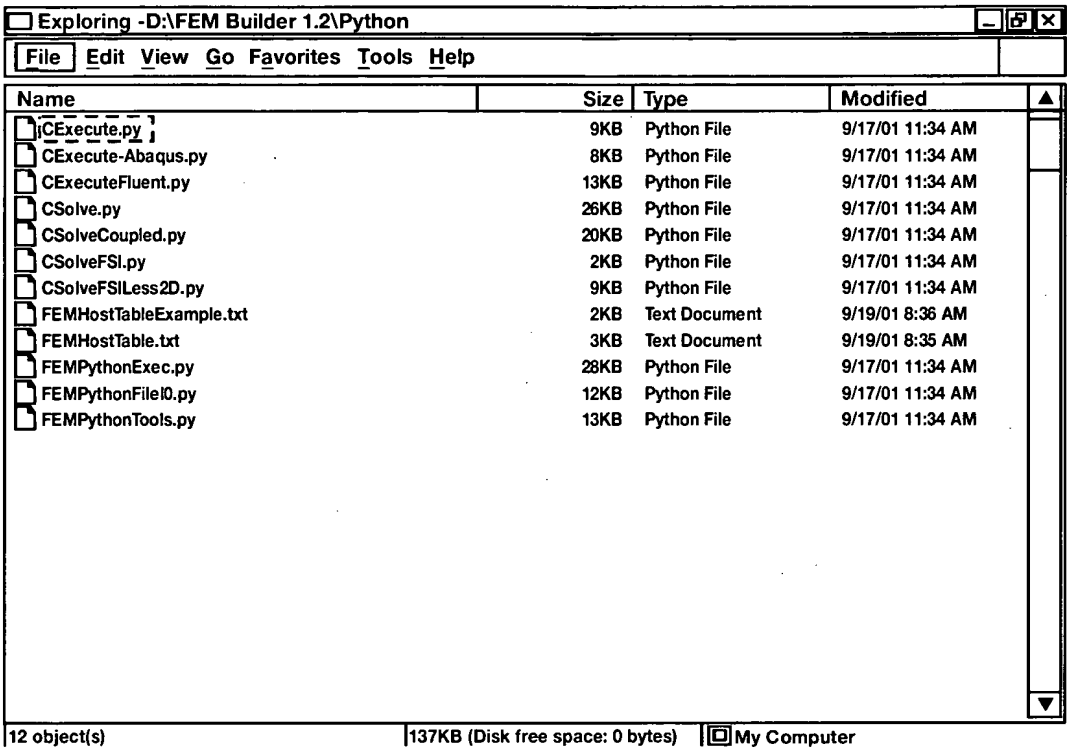

Exploring -D:\FEM Builder 1.2\Python
File Edit View Go Favorites Tools Help
Name Size Type Modified
CExecute.py 9KB Python File 9/17/01 11:34 AM
CExecute-Abaqus.py 8KB Python File 9/17/01 11:34 AM
CExecuteFluent.py 13KB Python File 9/17/01 11:34 AM
CSolve.py 26KB Python File 9/17/01 11:34 AM
CSolveCoupled.py 20KB Python File 9/17/01 11:34 AM
CSolveFSI.py 2KB Python File 9/17/01 11:34 AM
CSolveFSILess2D.py 9KB Python File 9/17/01 11:34 AM
FEMHostTableExample.txt 2KB Text Document 9/19/01 8:36 AM
FEMHostTable.txt 3KB Text Document 9/19/01 8:35 AM
FEMPythonExec.py 28KB Python File 9/17/01 11:34 AM
FEMPythonFileI0.py 12KB Python File 9/17/01 11:34 AM
FEMPythonTools.py 13KB Python File 9/17/01 11:34 AM
12 object(s)
137KB (Disk free space: 0 bytes)
My Computer

FIG. 29

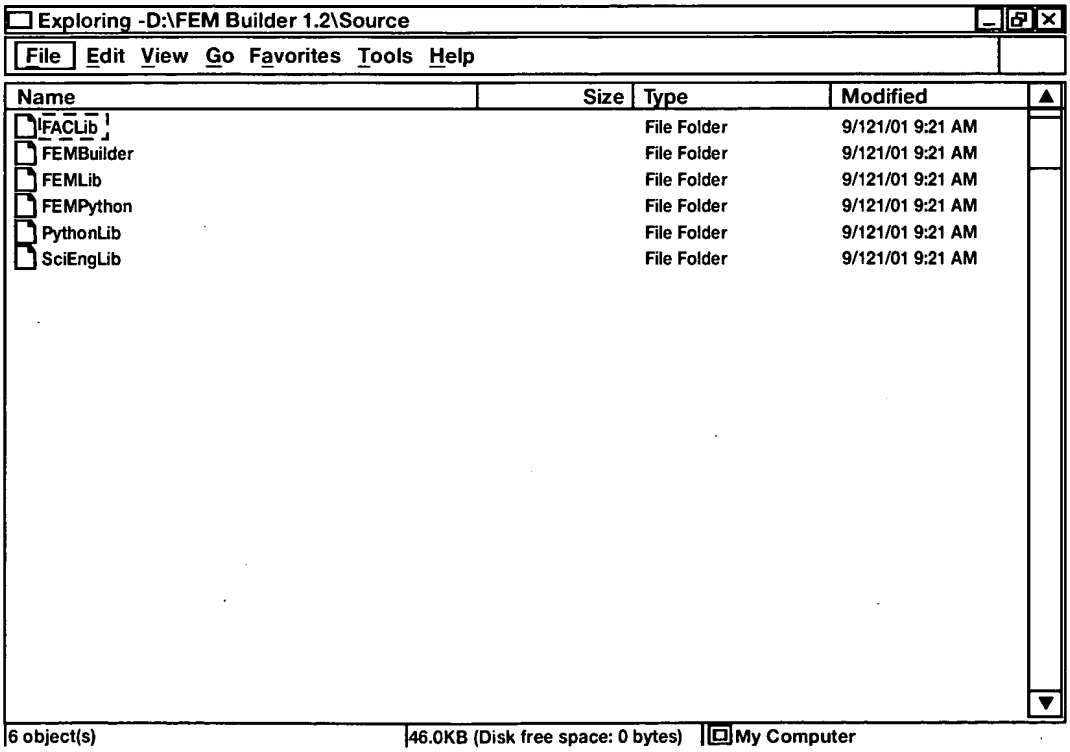

Exploring -D:\FEM Builder 1.2\Source
File Edit View Go Favorites Tools Help
Name Size Type Modified
FACLib File Folder 9/121/01 9:21 AM
FEMBuilder File Folder 9/121/01 9:21 AM
FEMLib File Folder 9/121/01 9:21 AM
FEMPython File Folder 9/121/01 9:21 AM
PythonLib File Folder 9/121/01 9:21 AM
SciEngLib File Folder 9/121/01 9:21 AM
6 object(s)
46.0KB (Disk free space: 0 bytes)
My Computer

FIG. 30

Exploring -D:\FEM Builder 1.2\Source\FACLib

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
ArbArray.hpp	10KB	HPP File	9/17/01 11:30 AM
ArbBdrySeg.hpp	6KB	HPP File	9/17/01 11:30 AM
ArbBSpline2D.cpp	24KB	CPP File	9/17/01 11:30 AM
ArbBSpline2D.hpp	8KB	HPP File	9/17/01 11:30 AM
ArbCoord2D.hpp	12KB	HPP File	9/17/01 11:30 AM
ArbFeasableRegion.cpp	10KB	CPP File	9/17/01 11:30 AM
ArbFeasableRegion.hpp	5KB	HPP File	9/17/01 11:30 AM
ArbGeom2DMixIn.cpp	10KB	CPP File	9/17/01 11:30 AM
ArbGeom2DMixIn.hpp	2KB	HPP File	9/17/01 11:30 AM
ArbHashTable.hpp	35KB	HPP File	9/17/01 11:30 AM
ArbHeap.hpp	16KB	HPP File	9/17/01 11:30 AM
ArbKDTree2D.cpp	16KB	CPP File	9/17/01 11:30 AM
ArbKDTree2D.hpp	9KB	HPP File	9/17/01 11:30 AM
ArbMsh.hpp	5KB	HPP File	9/17/01 11:30 AM
ArbMshCleanup.cpp	31KB	CPP File	9/17/01 11:30 AM
ArbMshCrackRegion2D.cpp	68KB	CPP File	9/17/01 11:30 AM
ArbMshCrackRegion2D.hpp	50KB	HPP File	9/17/01 11:30 AM
ArbMshEdgeList.cpp	86KB	CPP File	9/17/01 11:30 AM
ArbMshEdgeList.hpp	28KB	HPP File	9/17/01 11:30 AM
ArbMshQuad2D.cpp	179KB	CPP File	9/17/01 11:30 AM
ArbMshRegion2D.cpp	102KB	CPP File	9/17/01 11:30 AM
ArbMshRegion2D.hpp	62KB	HPP File	9/17/01 11:30 AM
ArbMshSmooth2D.cpp	51KB	CPP File	9/17/01 11:30 AM

37 object(s) | 133MB (Disk free space: 0 bytes) | My Computer

FIG. 31

Exploring -D:\FEM Builder 1.2\Source\FACLib

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
ArbMshCrackRegion2D.cpp	68KB	CPP File	9/17/01 11:30 AM
ArbMshCrackRegion2D.hpp	50KB	HPP File	9/17/01 11:30 AM
ArbMshEdgeList.cpp	86KB	CPP File	9/17/01 11:30 AM
ArbMshEdgeList.hpp	28KB	HPP File	9/17/01 11:30 AM
ArbMshQuad2D.cpp	179KB	CPP File	9/17/01 11:30 AM
ArbMshRegion2D.cpp	102KB	CPP File	9/17/01 11:30 AM
ArbMshRegion2D.hpp	62KB	HPP File	9/17/01 11:30 AM
ArbMshSmooth2D.cpp	51KB	CPP File	9/17/01 11:30 AM
ArbMshSmooth2D.hpp	18KB	HPP File	9/17/01 11:30 AM
ArbMshTopo2D.cpp	92KB	CPP File	9/17/01 11:30 AM
ArbMshTopo2D.hpp	54KB	HPP File	9/17/01 11:30 AM
ArbQuadTree.cpp	26KB	CPP File	9/17/01 11:30 AM
ArbQuadTree.hpp	14KB	HPP File	9/17/01 11:30 AM
ArbQueue.hpp	6KB	HPP File	9/17/01 11:30 AM
ArbRectangle.hpp	3KB	HPP File	9/17/01 11:30 AM
ArbRmshRegion2D.cpp	286KB	CPP File	9/17/01 11:30 AM
ArbRmshRegion2D.hpp	15KB	HPP File	9/17/01 11:30 AM
ArbSet.cpp	26KB	CPP File	9/17/01 11:30 AM
ArbSet.hpp	8KB	HPP File	9/17/01 11:30 AM
ArbSmallSet.hpp	4KB	HPP File	9/17/01 11:30 AM
FACLib.dsp	6KB	DSP File	9/17/01 11:30 AM
FACLib.dsw	1KB	DSW File	9/17/01 11:30 AM

37 object(s) | 1.33MB (Disk free space: 0 bytes) | My Computer

FIG. 32

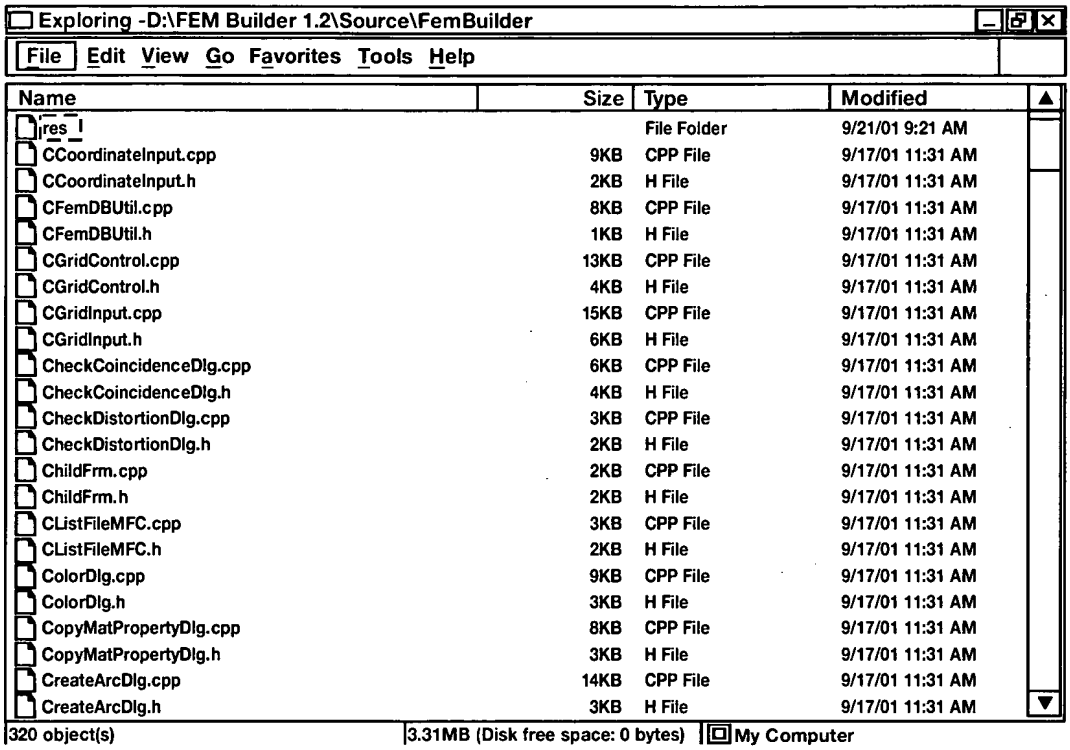

Exploring -D:\FEM Builder 1.2\Source\FemBuilder
File Edit View Go Favorites Tools Help
Name Size Type Modified
res_I File Folder 9/21/01 9:21 AM
CCoordinateInput.cpp 9KB CPP File 9/17/01 11:31 AM
CCoordinateInput.h 2KB H File 9/17/01 11:31 AM
CFemDBUtil.cpp 8KB CPP File 9/17/01 11:31 AM
CFemDBUtil.h 1KB H File 9/17/01 11:31 AM
CGridControl.cpp 13KB CPP File 9/17/01 11:31 AM
CGridControl.h 4KB H File 9/17/01 11:31 AM
CGridInput.cpp 15KB CPP File 9/17/01 11:31 AM
CGridInput.h 6KB H File 9/17/01 11:31 AM
CheckCoincidenceDlg.cpp 6KB CPP File 9/17/01 11:31 AM
CheckCoincidenceDlg.h 4KB H File 9/17/01 11:31 AM
CheckDistortionDlg.cpp 3KB CPP File 9/17/01 11:31 AM
CheckDistortionDlg.h 2KB H File 9/17/01 11:31 AM
ChildFrm.cpp 2KB CPP File 9/17/01 11:31 AM
ChildFrm.h 2KB H File 9/17/01 11:31 AM
CListFileMFC.cpp 3KB CPP File 9/17/01 11:31 AM
CListFileMFC.h 2KB H File 9/17/01 11:31 AM
ColorDlg.cpp 9KB CPP File 9/17/01 11:31 AM
ColorDlg.h 3KB H File 9/17/01 11:31 AM
CopyMatPropertyDlg.cpp 8KB CPP File 9/17/01 11:31 AM
CopyMatPropertyDlg.h 3KB H File 9/17/01 11:31 AM
CreateArcDlg.cpp 14KB CPP File 9/17/01 11:31 AM
CreateArcDlg.h 3KB H File 9/17/01 11:31 AM
320 object(s)
3.31MB (Disk free space: 0 bytes)
My Computer

FIG. 33

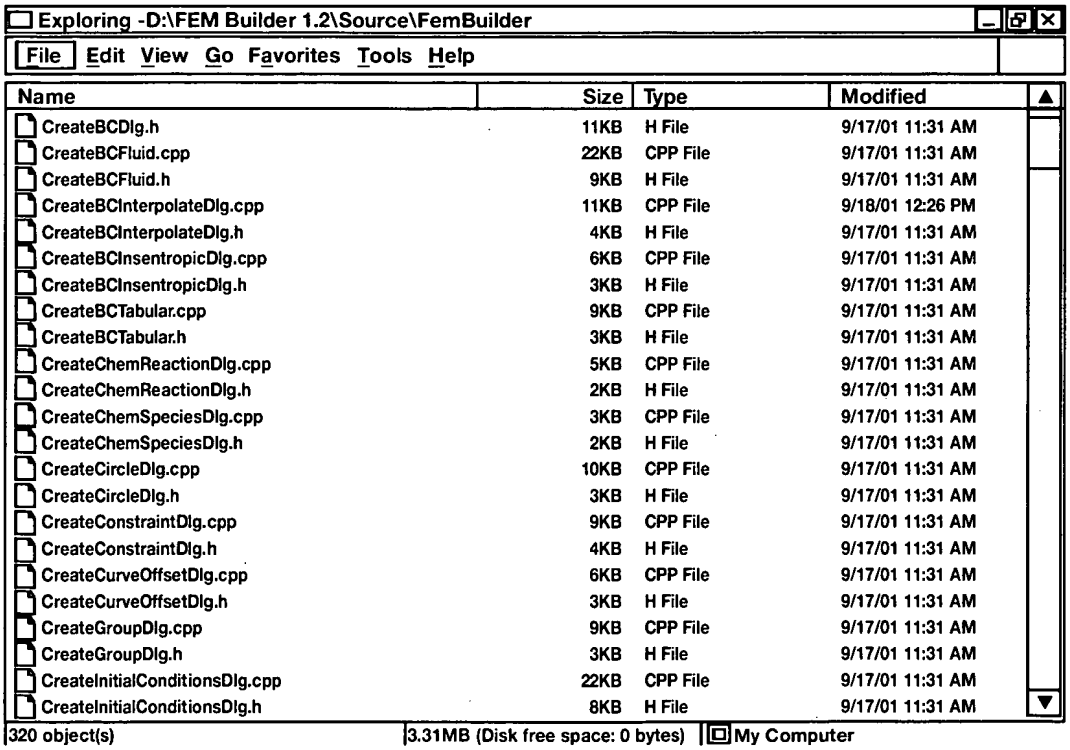

Exploring -D:\FEM Builder 1.2\Source\FemBuilder
File Edit View Go Favorites Tools Help
Name Size Type Modified
CreateBCDlg.h 11KB H File 9/17/01 11:31 AM
CreateBCFluid.cpp 22KB CPP File 9/17/01 11:31 AM
CreateBCFluid.h 9KB H File 9/17/01 11:31 AM
CreateBCInterpolateDlg.cpp 11KB CPP File 9/18/01 12:26 PM
CreateBCInterpolateDlg.h 4KB H File 9/17/01 11:31 AM
CreateBCInsentropicDlg.cpp 6KB CPP File 9/17/01 11:31 AM
CreateBCInsentropicDlg.h 3KB H File 9/17/01 11:31 AM
CreateBCTabular.cpp 9KB CPP File 9/17/01 11:31 AM
CreateBCTabular.h 3KB H File 9/17/01 11:31 AM
CreateChemReactionDlg.cpp 5KB CPP File 9/17/01 11:31 AM
CreateChemReactionDlg.h 2KB H File 9/17/01 11:31 AM
CreateChemSpeciesDlg.cpp 3KB CPP File 9/17/01 11:31 AM
CreateChemSpeciesDlg.h 2KB H File 9/17/01 11:31 AM
CreateCircleDlg.cpp 10KB CPP File 9/17/01 11:31 AM
CreateCircleDlg.h 3KB H File 9/17/01 11:31 AM
CreateConstraintDlg.cpp 9KB CPP File 9/17/01 11:31 AM
CreateConstraintDlg.h 4KB H File 9/17/01 11:31 AM
CreateCurveOffsetDlg.cpp 6KB CPP File 9/17/01 11:31 AM
CreateCurveOffsetDlg.h 3KB H File 9/17/01 11:31 AM
CreateGroupDlg.cpp 9KB CPP File 9/17/01 11:31 AM
CreateGroupDlg.h 3KB H File 9/17/01 11:31 AM
CreateInitialConditionsDlg.cpp 22KB CPP File 9/17/01 11:31 AM
CreateInitialConditionsDlg.h 8KB H File 9/17/01 11:31 AM
320 object(s)
3.31MB (Disk free space: 0 bytes)
My Computer

FIG. 34

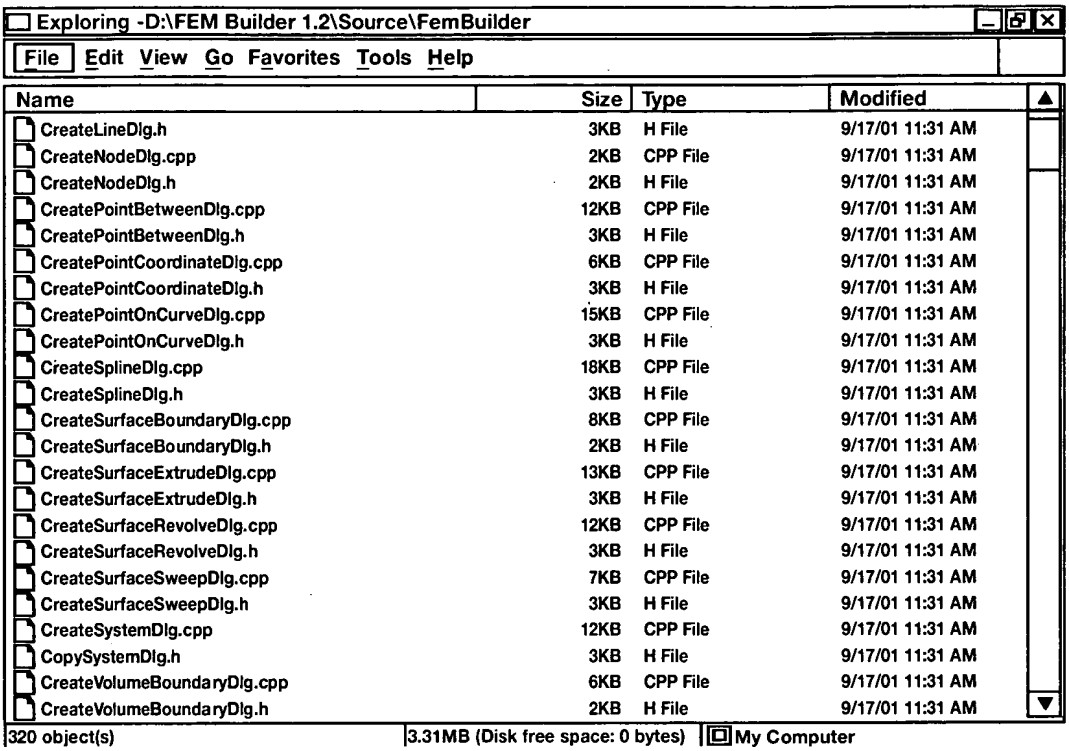

Exploring -D:\FEM Builder 1.2\Source\FemBuilder
File Edit View Go Favorites Tools Help
Name Size Type Modified
CreateLineDlg.h 3KB H File 9/17/01 11:31 AM
CreateNodeDlg.cpp 2KB CPP File 9/17/01 11:31 AM
CreateNodeDlg.h 2KB H File 9/17/01 11:31 AM
CreatePointBetweenDlg.cpp 12KB CPP File 9/17/01 11:31 AM
CreatePointBetweenDlg.h 3KB H File 9/17/01 11:31 AM
CreatePointCoordinateDlg.cpp 6KB CPP File 9/17/01 11:31 AM
CreatePointCoordinateDlg.h 3KB H File 9/17/01 11:31 AM
CreatePointOnCurveDlg.cpp 15KB CPP File 9/17/01 11:31 AM
CreatePointOnCurveDlg.h 3KB H File 9/17/01 11:31 AM
CreateSplineDlg.cpp 18KB CPP File 9/17/01 11:31 AM
CreateSplineDlg.h 3KB H File 9/17/01 11:31 AM
CreateSurfaceBoundaryDlg.cpp 8KB CPP File 9/17/01 11:31 AM
CreateSurfaceBoundaryDlg.h 2KB H File 9/17/01 11:31 AM
CreateSurfaceExtrudeDlg.cpp 13KB CPP File 9/17/01 11:31 AM
CreateSurfaceExtrudeDlg.h 3KB H File 9/17/01 11:31 AM
CreateSurfaceRevolveDlg.cpp 12KB CPP File 9/17/01 11:31 AM
CreateSurfaceRevolveDlg.h 3KB H File 9/17/01 11:31 AM
CreateSurfaceSweepDlg.cpp 7KB CPP File 9/17/01 11:31 AM
CreateSurfaceSweepDlg.h 3KB H File 9/17/01 11:31 AM
CreateSystemDlg.cpp 12KB CPP File 9/17/01 11:31 AM
CopySystemDlg.h 3KB H File 9/17/01 11:31 AM
CreateVolumeBoundaryDlg.cpp 6KB CPP File 9/17/01 11:31 AM
CreateVolumeBoundaryDlg.h 2KB H File 9/17/01 11:31 AM
320 object(s)
3.31MB (Disk free space: 0 bytes)
My Computer

FIG. 35

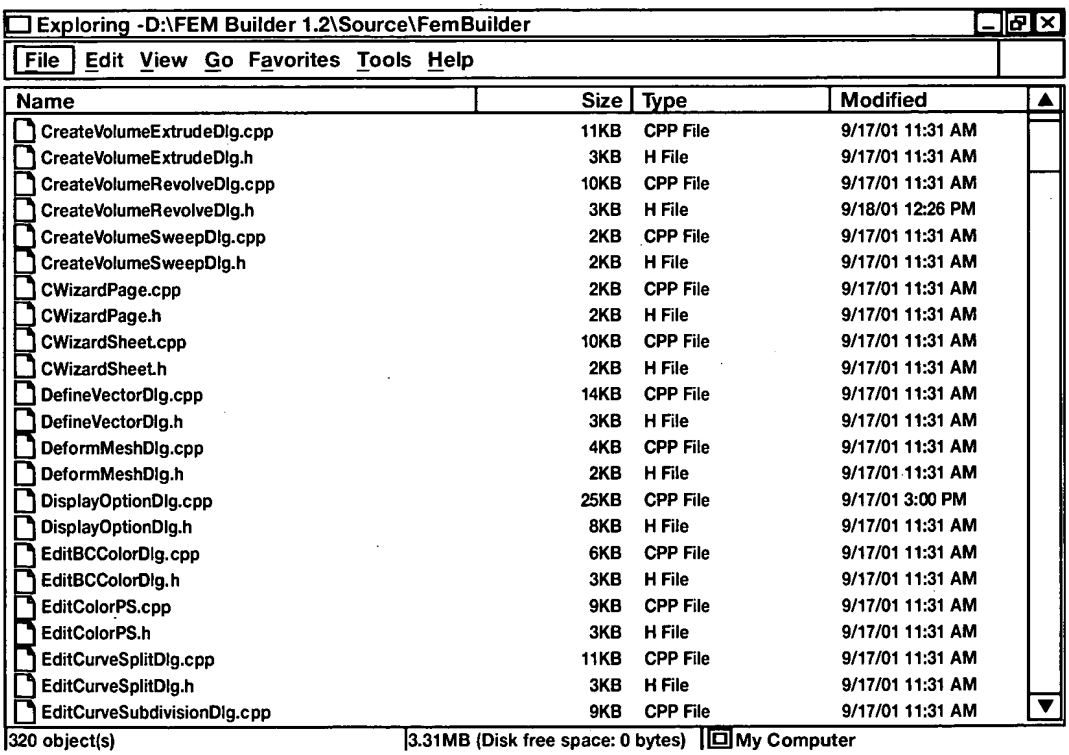

Exploring -D:\FEM Builder 1.2\Source\FemBuilder
File Edit View Go Favorites Tools Help
Name Size Type Modified
CreateVolumeExtrudeDlg.cpp 11KB CPP File 9/17/01 11:31 AM
CreateVolumeExtrudeDlg.h 3KB H File 9/17/01 11:31 AM
CreateVolumeRevolveDlg.cpp 10KB CPP File 9/17/01 11:31 AM
CreateVolumeRevolveDlg.h 3KB H File 9/18/01 12:26 PM
CreateVolumeSweepDlg.cpp 2KB CPP File 9/17/01 11:31 AM
CreateVolumeSweepDlg.h 2KB H File 9/17/01 11:31 AM
CWizardPage.cpp 2KB CPP File 9/17/01 11:31 AM
CWizardPage.h 2KB H File 9/17/01 11:31 AM
CWizardSheet.cpp 10KB CPP File 9/17/01 11:31 AM
CWizardSheet.h 2KB H File 9/17/01 11:31 AM
DefineVectorDlg.cpp 14KB CPP File 9/17/01 11:31 AM
DefineVectorDlg.h 3KB H File 9/17/01 11:31 AM
DeformMeshDlg.cpp 4KB CPP File 9/17/01 11:31 AM
DeformMeshDlg.h 2KB H File 9/17/01 11:31 AM
DisplayOptionDlg.cpp 25KB CPP File 9/17/01 3:00 PM
DisplayOptionDlg.h 8KB H File 9/17/01 11:31 AM
EditBCColorDlg.cpp 6KB CPP File 9/17/01 11:31 AM
EditBCColorDlg.h 3KB H File 9/17/01 11:31 AM
EditColorPS.cpp 9KB CPP File 9/17/01 11:31 AM
EditColorPS.h 3KB H File 9/17/01 11:31 AM
EditCurveSplitDlg.cpp 11KB CPP File 9/17/01 11:31 AM
EditCurveSplitDlg.h 3KB H File 9/17/01 11:31 AM
EditCurveSubdivisionDlg.cpp 9KB CPP File 9/17/01 11:31 AM
320 object(s)
3.31MB (Disk free space: 0 bytes)
My Computer

FIG. 36

Exploring -D:\FEM Builder 1.2\Source\FemBuilder

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
EditCurveSubdivison.Dlg.h	3KB	H File	9/17/01 11:31 AM
EditCurveTrim.Dlg.cpp	9KB	CPP File	9/17/01 11:31 AM
EditCurveTrim.Dlg.h	3KB	H File	9/17/01 11:31 AM
EditElementAttributesDlg.cpp	14KB	CPP File	9/17/01 11:31 AM
EditElementAttributesDlg.h	4KB	H File	9/17/01 11:31 AM
EditElementDlg.cpp	18KB	CPP File	9/17/01 11:31 AM
EditElementDlg.h	4KB	H File	9/17/01 11:31 AM
EditElementOrientDlg.cpp	46KB	CPP File	9/17/01 11:31 AM
EditElementOrientDlg.h	15KB	H File	9/17/01 11:31 AM
EditGravityDlg.cpp	2KB	CPP File	9/17/01 11:31 AM
EditGravityDlg.h	2KB	H File	9/17/01 11:31 AM
EditMeshAttributeDlg.cpp	6KB	CPP File	9/17/01 11:31 AM
EditMeshAttributeDlg.h	3KB	H File	9/17/01 11:31 AM
EditMultipleElementsDlg.cpp	2KB	CPP File	9/17/01 11:31 AM
EditMultipleElementsDlg.h	2KB	H File	9/17/01 11:31 AM
EditNodeDlg.cpp	11KB	CPP File	9/17/01 11:31 AM
EditNodeDlg.h	3KB	H File	9/17/01 11:31 AM
EditNodeDSystemDlg.cpp	6KB	CPP File	9/17/01 11:31 AM
EditNodeDSystemDlg.h	3KB	H File	9/17/01 11:31 AM
EditWorkPlaneDlg.cpp	10KB	CPP File	9/17/01 11:31 AM
EditWorkPlaneDlg.h	3KB	H File	9/17/01 11:31 AM
EditWorkPlaneMoveDlg.cpp	11KB	CPP File	9/17/01 11:31 AM
EditWorkPlaneMoveDlg.h	3KB	H File	9/17/01 11:31 AM

320 object(s) | 3.31MB (Disk free space: 0 bytes) | My Computer

FIG. 37

Exploring -D:\FEM Builder 1.2\Source\FemBuilder

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
error.wav	25KB	Wave Sound	8/3/96 1:00 AM
ExecuteAbaqusDlg.cpp	6KB	CPP File	9/17/01 11:31 AM
ExecuteAbaqusDlg.h	3KB	H File	9/17/01 11:31 AM
ExecuteFluentDlg.cpp	8KB	CPP File	9/17/01 11:31 AM
ExecuteFluentDlg.h	3KB	H File	9/17/01 11:31 AM
ExecuteParameterPP.cpp	20KB	CPP File	9/17/01 11:31 AM
ExecuteParameterPP.h	5KB	H File	9/17/01 11:31 AM
Fem.aps	621KB	APS File	9/20/01 10:36 AM
Fem.cpp	16KB	CPP File	9/20/01 11:07 AM
Fem.dsp	30KB	DSP File	9/17/01 11:31 AM
Fem.dsw	2KB	DSW File	9/17/01 11:31 AM
Fem.h	3KB	H File	9/20/01 10:37 AM
Fem.rc	353KB	RC File	9/20/01 11:36 AM
FemDoc.cpp	44KB	CPP File	9/17/01 11:31 AM
FemDoc.h	17KB	H File	9/17/01 11:31 AM
FemDocBlank.cpp	4KB	CPP File	9/17/01 11:31 AM
FemDocCreateBC.cpp	11KB	CPP File	9/17/01 11:31 AM
FemDocDelete.cpp	8KB	CPP File	9/17/01 11:31 AM
FemDocEditBC.cpp	2KB	CPP File	9/17/01 11:31 AM
FemDocFEM.cpp	3KB	CPP File	9/17/01 11:31 AM
FemDocGeometry.cpp	9KB	CPP File	9/17/01 11:31 AM
FemDocInterfaces.cpp	6KB	CPP File	9/17/01 11:31 AM
FemDocList.cpp	10KB	CPP File	9/17/01 11:31 AM

320 object(s) | 3.31MB (Disk free space: 0 bytes) | My Computer

FIG. 38

Exploring -D:\FEM Builder 1.2\Source\FemBuilder

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FemDocMatProp.cpp	6KB	CPP File	9/17/01 11:31 AM
FemDocOrient.cpp	1KB	CPP File	9/17/01 11:31 AM
FemDocPost.cpp	4KB	CPP File	9/17/01 11:31 AM
FemDocTools.cpp	4KB	CPP File	9/17/01 11:31 AM
FemUserMessage.h	1KB	H File	9/17/01 11:31 AM
FemView.cpp	52KB	CPP File	9/21/01 7:06 AM
FemView.h	11KB	H File	9/17/01 11:31 AM
FilterOptionsDlg.cpp	5KB	CPP File	9/17/01 11:31 AM
FilterOptionsDlg.h	2KB	H File	9/17/01 11:31 AM
FlowModelParameters.cpp	17KB	CPP File	9/17/01 11:31 AM
FlowModelParameters.h	5KB	H File	9/17/01 11:31 AM
FractureMechanicsDlg.cpp	4KB	CPP File	9/17/01 11:31 AM
FractureMechanicsDlg.h	2KB	H File	9/17/01 11:31 AM
GPropertySheetFun.cpp	3KB	CPP File	9/17/01 11:31 AM
GPropertySheetFun.h	1KB	H File	9/17/01 11:31 AM
Insert2DFlawDlg.cpp	15KB	CPP File	9/17/01 11:31 AM
Insert2DFlawDlg.h	5KB	H File	9/17/01 11:31 AM
Insert2DFlawEllipseDlg.cpp	8KB	CPP File	9/17/01 11:31 AM
Insert2DFlawEllipseDlg.h	2KB	H File	9/17/01 11:31 AM
Interface.cpp	41KB	CPP File	9/17/01 11:31 AM
Interface.h	3KB	H File	9/17/01 11:31 AM
InterpolateProjectionDlg.cpp	9KB	CPP File	9/17/01 11:31 AM
InterpolateProjectionDlg.h	3KB	H File	9/17/01 11:31 AM

320 object(s) | 3.31MB (Disk free space: 0 bytes) | My Computer

FIG. 39

Exploring -D:\FEM Builder 1.2\Source\FemBuilder

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
listFileDlg.cpp	5KB	CPP File	8/3/96 1:00 AM
listFileDlg.h	2KB	H File	9/17/01 11:31 AM
ListResultValuesDlg.cpp	7KB	CPP File	9/17/01 11:31 AM
ListResultValuesDlg.h	3KB	H File	9/17/01 11:31 AM
MainFrm.cpp	17KB	CPP File	9/20/01 10:37 AM
MainFrm.h	3KB	H File	9/17/01 11:31 AM
MaterialPropertyDlg.cpp	20KB	CPP File	9/17/01 11:31 AM
MaterialPropertyDlg.h	5KB	H File	9/20/01 10:36 AM
MeshDlg.cpp	42KB	CPP File	9/20/01 11:07 AM
MeshDlg.h	10KB	H File	9/17/01 11:31 AM
ModelFileNamePP.cpp	12KB	CPP File	9/17/01 11:31 AM
ModelFileNamePP.h	4KB	H File	9/20/01 10:37 AM
ModelInfoDlg.cpp	17KB	CPP File	9/20/01 11:36 AM
ModelInfoDlg.h	6KB	H File	9/17/01 11:31 AM
MoveCopyDlg.cpp	34KB	CPP File	9/17/01 11:31 AM
MoveCopyDlg.h	10KB	H File	9/17/01 11:31 AM
OptionsDlg.cpp	21KB	CPP File	9/18/01 12:26 PM
OptionsDlg.h	9KB	H File	9/17/01 11:31 AM
OrientViewDlg.cpp	6KB	CPP File	9/21/01 7:06 AM
OrientViewDlg.h	4KB	H File	9/17/01 11:31 AM
PostContourDlg.cpp	17KB	CPP File	9/17/01 11:31 AM
PostContourDlg.h	4KB	H File	9/17/01 11:31 AM
PostDeformedDlg.cpp	13KB	CPP File	9/17/01 11:31 AM

320 object(s) | 3.31MB (Disk free space: 0 bytes) | My Computer

FIG. 40

Exploring -D:\FEM Builder 1.2\Source\FemBuilder

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
PostDeformedDlg.h	3KB	H File	9/17/01 11:31 AM
PostDlg.cpp	33KB	CPP File	9/21/01 7:06 AM
PostDlg.h	11KB	H File	9/17/01 11:31 AM
PostVectorDlg.cpp	17KB	CPP File	9/17/01 11:31 AM
PostVectorDlg.h	4KB	H File	9/17/01 11:31 AM
PostView.cpp	15KB	CPP File	9/21/01 7:06 AM
PostView.h	4KB	H File	9/17/01 11:31 AM
PostXYAnalysisResultDlg.cpp	30KB	CPP File	9/17/01 11:31 AM
PostXYAnalysisResultDlg.h	7KB	H File	9/17/01 11:31 AM
PostXYPlotParmDlg.cpp	35KB	CPP File	9/17/01 11:31 AM
PostXYPlotParmDlg.h	9KB	H File	9/17/01 11:31 AM
PostXYPlotViewDlg.cpp	2KB	CPP File	9/17/01 11:31 AM
PostXYPlotViewDlg.h	2KB	H File	9/17/01 11:31 AM
PostXYTimeHistoryDlg.cpp	21KB	CPP File	9/17/01 11:31 AM
PostXYTimeHistoryDlg.h	4KB	H File	9/17/01 11:31 AM
ReadAbaqusDlg.cpp	3KB	CPP File	9/17/01 11:31 AM
ReadAbaqusDlg.h	2KB	H File	9/17/01 11:31 AM
ReadAnsysDlg.cpp	3KB	CPP File	9/17/01 11:31 AM
ReadAnsysDlg.h	2KB	H File	9/17/01 11:31 AM
ReadAscharDlg.cpp	4KB	CPP File	9/17/01 11:31 AM
ReadAscharDlg.h	3KB	H File	9/17/01 11:31 AM
ReadCCMDlg.cpp	4KB	CPP File	9/17/01 11:31 AM
ReadCMMDlg.h	3KB	H File	9/17/01 11:31 AM

320 object(s) | 3.31MB (Disk free space: 0 bytes) | My Computer

FIG. 41

Exploring -D:\FEM Builder 1.2\Source\FemBuilder

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
ReadCDCADlg.cpp	4KB	CPP File	9/17/01 11:31 AM
ReadCDCADlg.h	3KB	H File	9/17/01 11:31 AM
ReadFluentDlg.cpp	3KB	CPP File	9/17/01 11:31 AM
ReadFluentDlg.h	2KB	H File	9/17/01 11:31 AM
ReadGridGenDlg.cpp	3KB	CPP File	9/17/01 11:31 AM
ReadGridGenDlg.h	2KB	H File	9/17/01 11:31 AM
ReadIdeasMsDlg.cpp	3KB	CPP File	9/17/01 11:31 AM
ReadIdeasMsDlg.h	2KB	H File	9/17/01 11:31 AM
ReadPatranDlg.cpp	8KB	CPP File	9/17/01 11:32 AM
ReadPatranDlg.h	3KB	H File	9/17/01 11:32 AM
ReadRecessDlg.cpp	3KB	CPP File	9/17/01 11:32 AM
ReadRecessDlg.h	2KB	H File	9/17/01 11:32 AM
ReadSharpDlg.cpp	3KB	CPP File	9/17/01 11:32 AM
ReadSharpDlg.h	2KB	H File	9/17/01 11:32 AM
ReadSindaDlg.cpp	3KB	CPP File	9/17/01 11:32 AM
ReadSindaDlg.h	2KB	H File	9/17/01 11:32 AM
ReadSinGenDlg.cpp	3KB	CPP File	9/17/01 11:32 AM
ReadSinGenDlg.h	2KB	H File	9/17/01 11:32 AM
ReadTexChemDlg.cpp	3KB	CPP File	9/17/01 11:32 AM
ReadTexChemDlg.h	2KB	H File	9/17/01 11:32 AM
RefineMeshAdaptiveDlg.cpp	19KB	CPP File	9/20/01 10:38 AM
RefineMeshAdaptiveDlg.h	5KB	H File	9/17/01 11:32 AM
RefineMeshSpecifiedDlg.cpp	8KB	CPP File	9/17/01 11:32 AM

320 object(s) | 3.31MB (Disk free space: 0 bytes) | My Computer

FIG. 42

Exploring -D:\FEM Builder 1.2\Source\FemBuilder

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
RefineMeshSpecifiedDlg.h	3KB	H File	9/17/01 11:32 AM
resource.fd	56KB	FD File	9/20/01 10:36 AM
resource.h	39KB	H File	9/20/01 10:36 AM
ResultInterpolationDlg.cpp	13KB	CPP File	9/17/01 11:32 AM
ResultInterpolationDlg.h	5KB	H File	9/17/01 11:32 AM
ResultSuperpositonDlg.cpp	6KB	CPP File	9/17/01 11:32 AM
ResultSuperpositonDlg.h	3KB	H File	9/17/01 11:32 AM
SaveViewOrientationDlg.cpp	2KB	CPP File	9/17/01 11:32 AM
SaveViewOrientationDlg.h	2KB	H File	9/17/01 11:32 AM
SelectBCDlg.cpp	9KB	CPP File	9/17/01 11:32 AM
SelectBCDlg.h	3KB	H File	9/17/01 11:32 AM
SelectBCSetsDlg.cpp	3KB	CPP File	9/17/01 11:32 AM
SelectBCSetsDlg.h	2KB	H File	9/17/01 11:32 AM
SelectCurveDlg.cpp	9KB	CPP File	9/17/01 11:32 AM
SelectCurveDlg.h	3KB	H File	9/17/01 11:32 AM
SelectDlg.cpp	9KB	CPP File	9/17/01 11:32 AM
SelectDlg.h	5KB	H File	9/17/01 11:32 AM
SelectElementDlg.cpp	13KB	CPP File	9/17/01 11:32 AM
SelectElementDlg.h	3KB	H File	9/17/01 11:32 AM
SelectFaceDlg.cpp	8KB	CPP File	9/17/01 11:32 AM
SelectFaceDlg.h	2KB	H File	9/17/01 11:32 AM
SelectGroupDlg.cpp	8KB	CPP File	9/17/01 11:32 AM
SelectGroupDlg.h	3KB	H File	9/17/01 11:32 AM

320 object(s) | 3.31MB (Disk free space: 0 bytes) | My Computer

FIG. 43

Exploring -D:\FEM Builder 1.2\Source\FemBuilder

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
SelectMaterialDlg.cpp	8KB	CPP File	9/17/01 11:32 AM
SelectMaterialDlg.h	3KB	H File	9/17/01 11:32 AM
SelectMaterialDsDlg.cpp	3KB	CPP File	9/17/01 11:32 AM
SelectMaterialDsDlg.h	2KB	H File	9/17/01 11:32 AM
SelectModelDlg.cpp	3KB	CPP File	9/17/01 11:32 AM
SelectModelDlg.h	2KB	H File	9/17/01 11:32 AM
SelectNodeDlg.cpp	13KB	CPP File	9/17/01 11:32 AM
SelectNodeDlg.h	3KB	H File	9/17/01 11:32 AM
SelectPointDlg.cpp	9KB	CPP File	9/17/01 11:32 AM
SelectPointDlg.h	3KB	H File	9/17/01 11:32 AM
SelectReactionsDlg.cpp	4KB	CPP File	9/17/01 11:32 AM
SelectReactionsDlg.h	2KB	H File	9/17/01 11:32 AM
SelectResultDlg.cpp	16KB	CPP File	9/17/01 11:32 AM
SelectResultDlg.h	4KB	H File	9/17/01 11:32 AM
SelectSpeciesDlg.cpp	4KB	CPP File	9/17/01 11:32 AM
SelectSpeciesDlg.h	2KB	H File	9/17/01 11:32 AM
SelectSurfaceByTypeDlg.cpp	3KB	CPP File	9/17/01 11:32 AM
SelectSurfaceByTypeDlg.h	2KB	H File	9/17/01 11:32 AM
SelectSurfaceDlg.cpp	10KB	CPP File	9/17/01 11:32 AM
SelectSurfaceDlg.h	3KB	H File	9/17/01 11:32 AM
SelectSystemDlg.cpp	6KB	CPP File	9/17/01 11:32 AM
SelectSystemDlg.h	2KB	H File	9/17/01 11:32 AM
SelectVolumeDlg.cpp	9KB	CPP File	9/17/01 11:32 AM

320 object(s) | 3.31MB (Disk free space: 0 bytes) | My Computer

FIG. 44

Exploring -D:\FEM Builder 1.2\Source\FemBuilder

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
SelectVolumeDlg.h	3KB	H File	9/17/01 11:32 AM
SmoothMeshDlg.cpp	7KB	CPP File	9/17/01 11:32 AM
SmoothMeshDlg.h	3KB	H File	9/17/01 11:32 AM
SplashWnd.cpp	4KB	CPP File	9/17/01 11:32 AM
SplashWnd.h	2KB	H File	9/17/01 11:32 AM
Splsh16.bmp	81KB	Bitmap Image	9/17/01 11:32 AM
StdAfx.cpp	1KB	CPP File	9/17/01 11:32 AM
StdAfx.h	2KB	H File	9/17/01 11:32 AM
SubModelDlg.cpp	11KB	CPP File	9/17/01 11:32 AM
SubModelDlg.h	4KB	H File	9/17/01 11:32 AM
SweepDlg.cpp	8KB	CPP File	9/17/01 11:32 AM
SweepDlg.h	3KB	H File	9/17/01 11:32 AM
ThermalAblationDlg.cpp	12KB	CPP File	9/17/01 11:32 AM
ThermalAblationDlg.h	4KB	H File	9/17/01 11:32 AM
TranslateDlg.cpp	2KB	CPP File	9/17/01 11:32 AM
TranslateDlg.h	2KB	H File	9/17/01 11:32 AM
UnitSystemPP.cpp	6KB	CPP File	9/17/01 11:32 AM
UnitSystemPP.h	2KB	H File	9/17/01 11:32 AM
WriteAbaqusDlg.cpp	18KB	CPP File	9/17/01 11:32 AM
WriteAbaqusDlg.h	7KB	H File	9/17/01 11:32 AM
WriteAnsysDlg.cpp	2KB	CPP File	9/17/01 11:32 AM
WriteAnsysDlg.h	2KB	H File	9/17/01 11:32 AM
WriteCCMDlg.cpp	8KB	CPP File	9/17/01 3:00 PM

320 object(s) | 3.31MB (Disk free space: 0 bytes) | My Computer

FIG. 45

Exploring -D:\FEM Builder 1.2\Source\FemBuilder

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
WriteAnsysDlg.cpp	2KB	CPP File	9/17/01 11:32 AM
WriteAnsysDlg.h	2KB	H File	9/17/01 11:32 AM
WriteCCMDlg.cpp	8KB	CPP File	9/17/01 3:00 PM
WriteCCMDlg.h	3KB	H File	9/17/01 11:32 AM
WriteCDCADlg.cpp	8KB	CPP File	9/17/01 3:00 PM
WriteCDCADlg.h	3KB	H File	9/17/01 11:32 AM
WriteFluentDlg.cpp	22KB	CPP File	9/17/01 11:32 AM
WriteFluentDlg.h	9KB	H File	9/17/01 11:32 AM
WriteIdeasMSDlg.cpp	7KB	CPP File	9/17/01 11:32 AM
WriteIdeasMSDlg.h	3KB	H File	9/17/01 11:32 AM
WritePatranDlg.cpp	6KB	CPP File	9/17/01 11:32 AM
WritePatranDlg.h	3KB	H File	9/17/01 11:32 AM
WriteRecessDlg.cpp	26KB	CPP File	9/17/01 11:32 AM
WriteRecessDlg.h	7KB	H File	9/17/01 11:32 AM
WriteSindaDlg.cpp	14KB	CPP File	9/17/01 11:32 AM
WriteSindaDlg.h	6KB	H File	9/17/01 11:32 AM
WriteTexChem.cpp	7KB	CPP File	9/17/01 11:32 AM
WriteTexChem.h	4KB	H File	9/17/01 11:32 AM
XYPlotParmDlg.cpp	40KB	CPP File	9/21/01 7:06 AM
XYPlotParmDlg.h	9KB	H File	9/17/01 11:32 AM
XYPlotView.cpp	48KB	CPP File	9/21/01 7:06 AM
XYPlotView.h	8KB	H File	9/17/01 11:32 AM

320 object(s) | 3.31MB (Disk free space: 0 bytes) | My Computer

FIG. 46

Exploring -D:\FEM Builder 1.2\Source\FemLib

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FemDB		File Folder	9/21/01 9:21 AM
Include		File Folder	9/21/01 9:21 AM
Interfaces		File Folder	9/21/01 9:21 AM
FemLib.dsp	22KB	DSP File	9/17/01 11:37 AM
FemLib.dsw	2KB	DSW File	9/17/01 11:37 AM

5 object(s) | 46.7KB (Disk free space: 0 bytes) | My Computer

FIG. 47

Exploring -D:\FEM Builder 1.2\Source\FemLib\FemDB

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
CAblationSurface.cpp	2KB	CPP File	9/17/01 11:37 AM
CAdjacentElementList.cpp	4KB	CPP File	9/17/01 11:37 AM
CAmplitude.cpp	4KB	CPP File	9/17/01 11:37 AM
CBC.cpp	2KB	CPP File	9/17/01 11:37 AM
CBCDefault.cpp	13KB	CPP File	9/17/01 11:37 AM
CBCR.cpp	2KB	CPP File	9/17/01 11:37 AM
CBCSet.cpp	35KB	CPP File	9/17/01 11:37 AM
CBCV.cpp	2KB	CPP File	9/17/01 11:37 AM
CBoundaryNodeList.cpp	9KB	CPP File	9/17/01 11:37 AM
CCAXAResult.cpp	5KB	CPP File	9/17/01 11:37 AM
CCoincidentNode.cpp	15KB	CPP File	9/17/01 11:37 AM
CContourPolygon.cpp	2KB	CPP File	9/17/01 11:37 AM
CCrack.cpp	27KB	CPP File	9/17/01 11:37 AM
CCrackList.cpp	3KB	CPP File	9/17/01 11:37 AM
CCurveSubdivision.cpp	6KB	CPP File	9/17/01 11:37 AM
CEAttrib.cpp	5KB	CPP File	9/17/01 11:37 AM
CEdgeSubdivisions.cpp	11KB	CPP File	9/17/01 11:37 AM
CElement.cpp	42KB	CPP File	9/17/01 11:37 AM
CEquation.cpp	4KB	CPP File	9/17/01 11:37 AM
CFemCurve.cpp	2KB	CPP File	9/17/01 11:37 AM
CFemDP.cpp	23KB	CPP File	9/17/01 11:37 AM
CFemDBAblationSurface.cpp	3KB	CPP File	9/17/01 11:37 AM
CFemDBAmplitude.cpp	2KB	CPP File	9/17/01 11:37 AM

103 object(s) | 1.44MB (Disk free space: 0 bytes) | My Computer

FIG. 48

Exploring -D:\FEM Builder 1.2\Source\FemLib\FemDB

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
CFemDBBC.cpp	28KB	CPP File	9/17/01 11:37 AM
CFemDBBCDefaults.cpp	3KB	CPP File	9/17/01 11:37 AM
CFemDBConventions.cpp	8KB	CPP File	9/17/01 11:37 AM
CFemDBCResult.cpp	3KB	CPP File	9/17/01 11:37 AM
CFemDBCurve.cpp	21KB	CPP File	9/17/01 11:37 AM
CFemDBElement.cpp	17KB	CPP File	9/17/01 11:37 AM
CFemDBElementOrient.cpp	9KB	CPP File	9/17/01 11:37 AM
CFemDBEquation.cpp	17KB	CPP File	9/17/01 11:37 AM
CFemDBEResult.cpp	3KB	CPP File	9/17/01 11:37 AM
CFemDBGroup.cpp	9KB	CPP File	9/17/01 11:37 AM
CFemDBInitialConditions.cpp	4KB	CPP File	9/17/01 11:37 AM
CFemDBMaterial.cpp	7KB	CPP File	9/17/01 11:37 AM
CFemDBMatID.cpp	11KB	CPP File	9/17/01 11:37 AM
CFemDBMesh.cpp	10KB	CPP File	9/17/01 11:37 AM
CFemDBNode.cpp	6KB	CPP File	9/17/01 11:37 AM
CFemDBNResult.cpp	3KB	CPP File	9/17/01 11:37 AM
CFemDBPrp.cpp	6KB	CPP File	9/17/01 11:37 AM
CFemDBPt.cpp	4KB	CPP File	9/17/01 11:37 AM
CFemDBResult.cpp	41KB	CPP File	9/17/01 11:37 AM
CFemDBSelect.cpp	62KB	CPP File	9/17/01 11:37 AM
CFemDBSet.cpp	9KB	CPP File	9/17/01 11:37 AM
CFemDBSubset.cpp	2KB	CPP File	9/17/01 11:37 AM
CFemDBSurface.cpp	26KB	CPP File	9/17/01 11:37 AM

103 object(s) | 1.44KB (Disk free space: 0 bytes) | My Computer

FIG. 49

Exploring -D:\FEM Builder 1.2\Source\FemLib\FemDB

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
CFemDBSystem.cpp	7KB	CPP File	9/17/01 11:37 AM
CFemDBVolume.cpp	14KB	CPP File	9/17/01 11:37 AM
CFemDO.cpp	6KB	CPP File	9/17/01 11:37 AM
CFemGeometry.cpp	2KB	CPP File	9/17/01 11:37 AM
CFemOptions.cpp	3KB	CPP File	9/17/01 11:37 AM
CFlowModel.cpp	9KB	CPP File	9/17/01 11:37 AM
CFractureCCI.cpp	6KB	CPP File	9/17/01 11:37 AM
CFractureCOD.cpp	7KB	CPP File	9/17/01 11:37 AM
CFractureJIntegral.cpp	21KB	CPP File	9/17/01 11:37 AM
CFractureJIntegralDPEnergyE.cpp	2KB	CPP File	9/17/01 11:37 AM
CFractureJIntegralDPEnergyI.cpp	4KB	CPP File	9/17/01 11:37 AM
CFractureMechanics.cpp	2KB	CPP File	9/17/01 11:37 AM
CGPDistortionCheck.cpp	2KB	CPP File	9/17/01 11:37 AM
CGroup.cpp	7KB	CPP File	9/17/01 11:37 AM
CInsert2DFlaw.cpp	41KB	CPP File	9/17/01 11:37 AM
CIsentropicFlow.cpp	4KB	CPP File	9/17/01 11:37 AM
CMesh.cpp	2KB	CPP File	9/17/01 11:37 AM
CMesh2D.cpp	24KB	CPP File	9/17/01 11:37 AM
CMesh3D.cpp	34KB	CPP File	9/17/01 11:37 AM
CMeshAttribute.cpp	3KB	CPP File	9/17/01 11:37 AM
CMeshElement2D.cpp	13KB	CPP File	9/17/01 11:37 AM
CMeshMapped2D.cpp	57KB	CPP File	9/17/01 11:37 AM
CMeshMapped3D.cpp	17KB	CPP File	9/17/01 11:37 AM

103 object(s) | 1.44MB (Disk free space: 0 bytes) | My Computer

FIG. 50

Exploring -D:\FEM Builder 1.2\Source\FemLib\FemDB

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
CMeshSmooth.cpp	8KB	CPP File	9/17/01 11:37 AM
CMeshTrans3D.cpp	17KB	CPP File	9/17/01 11:37 AM
CMoveCopy.cpp	55KB	CPP File	9/17/01 11:37 AM
CNode.cpp	4KB	CPP File	9/17/01 11:37 AM
COrient.cpp	2KB	CPP File	9/17/01 11:37 AM
CPt.cpp	2KB	CPP File	9/17/01 11:37 AM
CQuadrant.cpp	19KB	CPP File	9/17/01 11:37 AM
CRefineMesh.cpp	87KB	CPP File	9/17/01 11:37 AM
CResult.cpp	43KB	CPP File	9/17/01 11:37 AM
CSindaAttrib.cpp	6KB	CPP File	9/17/01 11:37 AM
CSindaNetwork.cpp	37KB	CPP File	9/17/01 11:37 AM
CSubModel.cpp	15KB	CPP File	9/17/01 11:37 AM
CSweepModel.cpp	27KB	CPP File	9/17/01 11:37 AM
CThermalAblation.cpp	32KB	CPP File	9/17/01 11:37 AM
DrawFem.cpp	25KB	CPP File	9/17/01 11:37 AM
FemEntityType.cpp	9KB	CPP File	9/17/01 11:37 AM
GElementContour.cpp	29KB	CPP File	9/17/01 11:37 AM
GElementDistortion.cpp	9KB	CPP File	9/17/01 11:37 AM
GElementFun.cpp	16KB	CPP File	9/17/01 11:37 AM
GElementGInt.cpp	17KB	CPP File	9/17/01 11:37 AM
GElementInfo.cpp	42KB	CPP File	9/17/01 11:37 AM
GElementNCIP.cpp	27KB	CPP File	9/17/01 11:37 AM
GElementNCPP.cpp	10KB	CPP File	9/17/01 11:37 AM

103 object(s) | 1.44KB (Disk free space: 0 bytes) | My Computer

FIG. 51

Exploring -D:\FEM Builder 1.2\Source\FemLib\FemDB

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
CSweepModel.cpp	27KB	CPP File	9/17/01 11:37 AM
CThermalAblation.cpp	32KB	CPP File	9/17/01 11:37 AM
DrawFem.cpp	25KB	CPP File	9/17/01 11:37 AM
FemEntityType.cpp	9KB	CPP File	9/17/01 11:37 AM
GElementContour.cpp	29KB	CPP File	9/17/01 11:37 AM
GElementDistortion.cpp	9KB	CPP File	9/17/01 11:37 AM
GElementFun.cpp	16KB	CPP File	9/17/01 11:37 AM
GElementGInt.cpp	17KB	CPP File	9/17/01 11:37 AM
GElementInfo.cpp	42KB	CPP File	9/17/01 11:37 AM
GElementNCIP.cpp	27KB	CPP File	9/17/01 11:37 AM
GElementNCPP.cpp	10KB	CPP File	9/17/01 11:37 AM
GElementNCVI.cpp	13KB	CPP File	9/17/01 11:37 AM
GElementOrient.cpp	3KB	CPP File	9/17/01 11:37 AM
GElementSF.cpp	17KB	CPP File	9/17/01 11:37 AM
GElementSFD.cpp	33KB	CPP File	9/17/01 11:37 AM
GElementSFDD.cpp	51KB	CPP File	9/17/01 11:37 AM
GMeshFun.cpp	8KB	CPP File	9/17/01 11:37 AM
GPointFun.cpp	2KB	CPP File	9/17/01 11:37 AM
GRdAnsysRes.cpp	13KB	CPP File	9/17/01 11:37 AM
GSindaFun.cpp	2KB	CPP File	9/17/01 11:37 AM
ResultInterpolation.cpp	23KB	CPP File	9/17/01 11:37 AM
ResultSuperposition.cpp	10KB	CPP File	9/17/01 11:37 AM

103 object(s) | 1.44MB (Disk free space: 0 bytes) | My Computer

FIG. 52

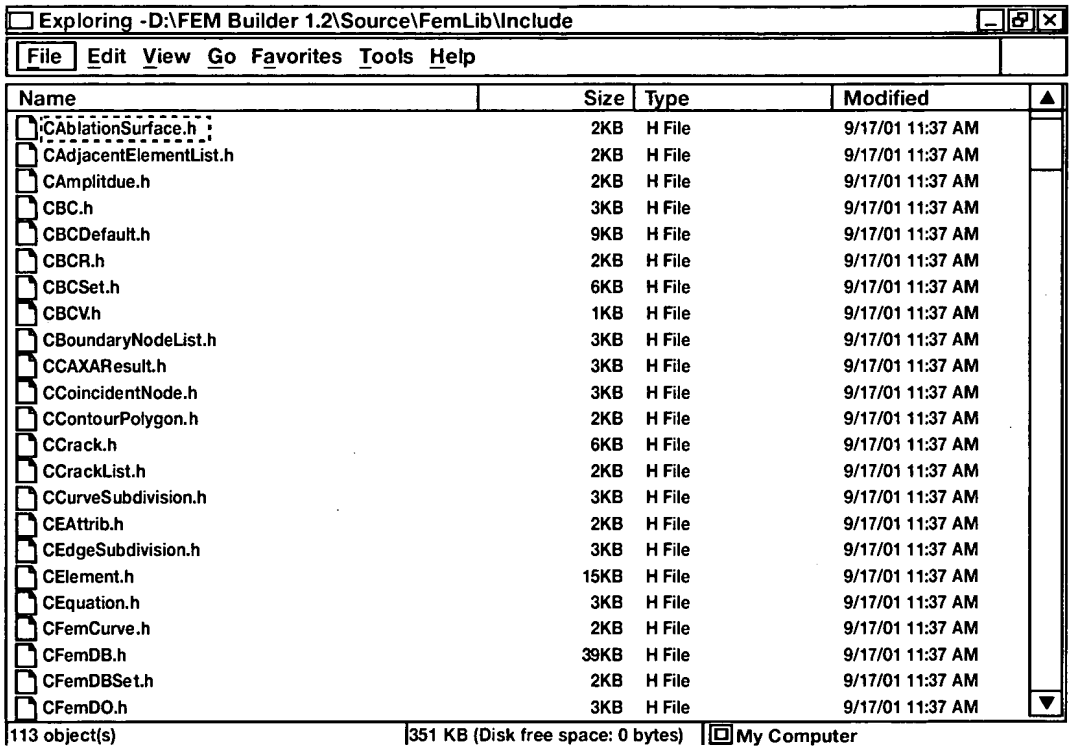

Exploring -D:\FEM Builder 1.2\Source\FemLib\Include
File Edit View Go Favorites Tools Help
Name Size Type Modified
CAblationSurface.h 2KB H File 9/17/01 11:37 AM
CAdjacentElementList.h 2KB H File 9/17/01 11:37 AM
CAmplitdue.h 2KB H File 9/17/01 11:37 AM
CBC.h 3KB H File 9/17/01 11:37 AM
CBCDefault.h 9KB H File 9/17/01 11:37 AM
CBCR.h 2KB H File 9/17/01 11:37 AM
CBCSet.h 6KB H File 9/17/01 11:37 AM
CBCV.h 1KB H File 9/17/01 11:37 AM
CBoundaryNodeList.h 3KB H File 9/17/01 11:37 AM
CCAXAResult.h 3KB H File 9/17/01 11:37 AM
CCoincidentNode.h 3KB H File 9/17/01 11:37 AM
CContourPolygon.h 2KB H File 9/17/01 11:37 AM
CCrack.h 6KB H File 9/17/01 11:37 AM
CCrackList.h 2KB H File 9/17/01 11:37 AM
CCurveSubdivision.h 3KB H File 9/17/01 11:37 AM
CEAttrib.h 2KB H File 9/17/01 11:37 AM
CEdgeSubdivision.h 3KB H File 9/17/01 11:37 AM
CElement.h 15KB H File 9/17/01 11:37 AM
CEquation.h 3KB H File 9/17/01 11:37 AM
CFemCurve.h 2KB H File 9/17/01 11:37 AM
CFemDB.h 39KB H File 9/17/01 11:37 AM
CFemDBSet.h 2KB H File 9/17/01 11:37 AM
CFemDO.h 3KB H File 9/17/01 11:37 AM
113 object(s)
351 KB (Disk free space: 0 bytes)
My Computer

FIG. 53

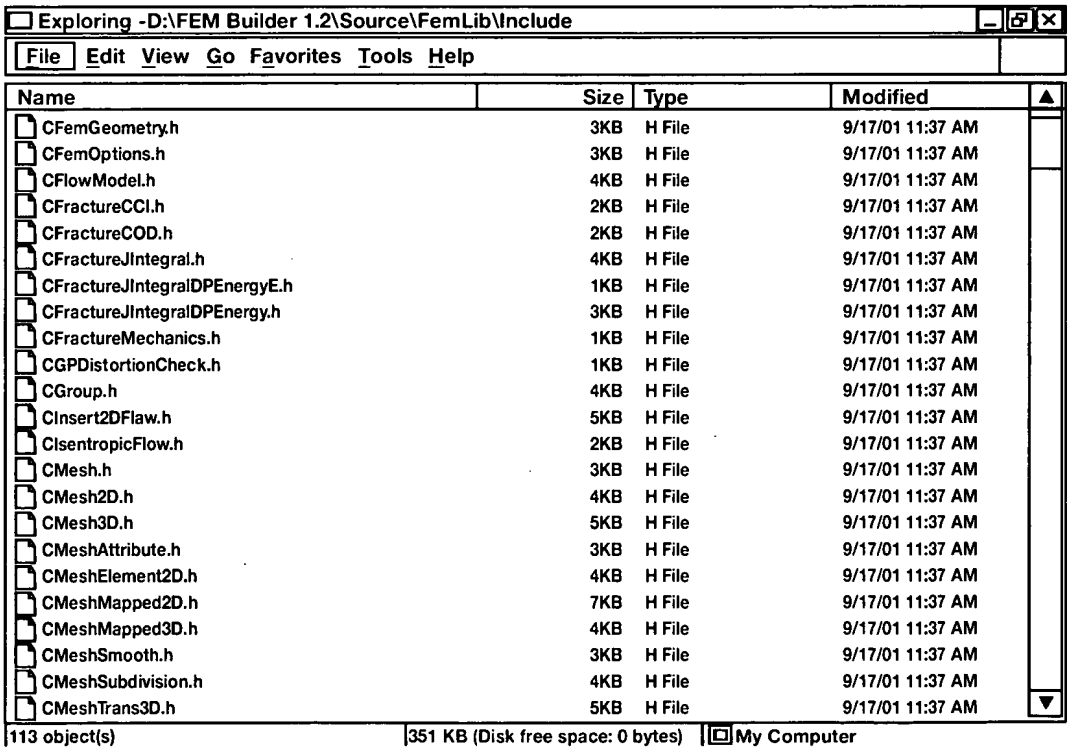

Exploring -D:\FEM Builder 1.2\Source\FemLib\Include
File Edit View Go Favorites Tools Help
Name Size Type Modified
CFemGeometry.h 3KB H File 9/17/01 11:37 AM
CFemOptions.h 3KB H File 9/17/01 11:37 AM
CFlowModel.h 4KB H File 9/17/01 11:37 AM
CFractureCCI.h 2KB H File 9/17/01 11:37 AM
CFractureCOD.h 2KB H File 9/17/01 11:37 AM
CFractureJIntegral.h 4KB H File 9/17/01 11:37 AM
CFractureJIntegralDPEnergyE.h 1KB H File 9/17/01 11:37 AM
CFractureJIntegralDPEnergy.h 3KB H File 9/17/01 11:37 AM
CFractureMechanics.h 1KB H File 9/17/01 11:37 AM
CGPDistortionCheck.h 1KB H File 9/17/01 11:37 AM
CGroup.h 4KB H File 9/17/01 11:37 AM
CInsert2DFlaw.h 5KB H File 9/17/01 11:37 AM
CIsentropicFlow.h 2KB H File 9/17/01 11:37 AM
CMesh.h 3KB H File 9/17/01 11:37 AM
CMesh2D.h 4KB H File 9/17/01 11:37 AM
CMesh3D.h 5KB H File 9/17/01 11:37 AM
CMeshAttribute.h 3KB H File 9/17/01 11:37 AM
CMeshElement2D.h 4KB H File 9/17/01 11:37 AM
CMeshMapped2D.h 7KB H File 9/17/01 11:37 AM
CMeshMapped3D.h 4KB H File 9/17/01 11:37 AM
CMeshSmooth.h 3KB H File 9/17/01 11:37 AM
CMeshSubdivision.h 4KB H File 9/17/01 11:37 AM
CMeshTrans3D.h 5KB H File 9/17/01 11:37 AM
113 object(s)
351 KB (Disk free space: 0 bytes)
My Computer

FIG. 54

Exploring -D:\FEM Builder 1.2\Source\FemLib\Include

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
CMoveCopy.h	5KB	H File	9/17/01 11:37 AM
CNode.h	2KB	H File	9/17/01 11:37 AM
COrient.h	2KB	H File	9/17/01 11:37 AM
CQuadrant.h	5KB	H File	9/17/01 11:37 AM
CRdCrackCombustionData.h	2KB	H File	9/17/01 11:37 AM
CRefineMesh.h	7KB	H File	9/17/01 11:37 AM
CResult.h	11KB	H File	9/17/01 11:37 AM
CSindaAttrib.h	2KB	H File	9/17/01 11:37 AM
CSindaNetwork.h	7KB	H File	9/17/01 11:37 AM
CSubModel.h	2KB	H File	9/17/01 11:37 AM
CSweepModel.h	3KB	H File	9/17/01 11:37 AM
CThermalAblation.h	3KB	H File	9/17/01 11:37 AM
CWrCrackCombustionData.h	2KB	H File	9/17/01 11:37 AM
CWrSindaData.h	3KB	H File	9/17/01 11:37 AM
FemEntityType.h	6KB	H File	9/17/01 11:37 AM
FemStddfn.h	2KB	H File	9/17/01 11:37 AM
GElementContour.h	3KB	H File	9/17/01 11:37 AM
GElementDistortion.h	2KB	H File	9/17/01 11:37 AM
GElementFun.h	3KB	H File	9/17/01 11:37 AM
GElementGInt.h	4KB	H File	9/17/01 11:37 AM
GElementInfo.h	3KB	H File	9/17/01 11:37 AM
GElementNCIP.h	3KB	H File	9/17/01 11:37 AM
GElementNCPP.h	2KB	H File	9/17/01 11:38 AM

113 object(s) | 351 KB (Disk free space: 0 bytes) | My Computer

FIG. 55

Exploring -D:\FEM Builder 1.2\Source\FemLib\Include

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
CElementNCVI.h	2KB	H File	9/17/01 11:38 AM
GElementOrient.h	1KB	H File	9/17/01 11:38 AM
GElementSF.h	2KB	H File	9/17/01 11:38 AM
GElementSFD.h	3KB	H File	9/17/01 11:38 AM
GElementSFDD.h	4KB	H File	9/17/01 11:38 AM
GMeshFun.h	1KB	H File	9/17/01 11:38 AM
GPointFun.h	1KB	H File	9/17/01 11:38 AM
GRdAnsysRes.h	3KB	H File	9/17/01 11:38 AM
GSindaFun.h	1KB	H File	9/17/01 11:38 AM
RdAbaqus.h	6KB	H File	9/17/01 11:38 AM
RdAbaqusFIF.h	1KB	H File	9/17/01 11:38 AM
RdAbaqusFOF.h	2KB	H File	9/17/01 11:38 AM
RdAbaqusInput.h	3KB	H File	9/17/01 11:38 AM
RdAnsysCDB.h	6KB	H File	9/17/01 11:38 AM
RdAnsysRes.h	4KB	H File	9/17/01 11:38 AM
RdAschar.h	5KB	H File	9/17/01 11:38 AM
RdCCM.h	2KB	H File	9/17/01 11:38 AM
RdCDCA.h	2KB	H File	9/17/01 11:38 AM
RdFemDB.h	2KB	H File	9/17/01 11:38 AM
RdFluent.h	5KB	H File	9/17/01 11:38 AM
RdFluentJ10.h	3KB	H File	9/17/01 11:38 AM
RdGridGen.h	2KB	H File	9/17/01 11:38 AM

113 object(s) | 351 KB (Disk free space: 0 bytes) | My Computer

FIG. 56

Exploring -D:\FEM Builder 1.2\Source\FemLib\Include

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
RdIdeasMS.h	4KB	H File	9/17/01 11:38 AM
RdPatran.h	3KB	H File	9/17/01 11:38 AM
RdRecess.h	3KB	H File	9/17/01 11:38 AM
RdSharp.h	3KB	H File	9/17/01 11:38 AM
RdSinda.h	1KB	H File	9/17/01 11:38 AM
RdSinGen.h	1KB	H File	9/17/01 11:38 AM
RdTexChem.h	2KB	H File	9/17/01 11:38 AM
RWAbaqus.h	1KB	H File	9/17/01 11:38 AM
RWAnsys.h	2KB	H File	9/17/01 11:38 AM
RWIdeasMS.h	2KB	H File	9/17/01 11:38 AM
WrAbaqus.h	6KB	H File	9/17/01 11:38 AM
WrAnsysCDB.h	3KB	H File	9/17/01 11:38 AM
WrCCM.h	2KB	H File	9/17/01 11:38 AM
WrCDCA.h	3KB	H File	9/17/01 11:38 AM
WrFemDB.h	2KB	H File	9/17/01 11:38 AM
WrFluent.h	8KB	H File	9/17/01 11:38 AM
WrIdeasMS.h	4KB	H File	9/17/01 11:38 AM
WrPatran.h	3KB	H File	9/17/01 11:38 AM
WrPatranRes.h	2KB	H File	9/17/01 11:38 AM
WrRecess.h	5KB	H File	9/17/01 11:38 AM
WrSinda.h	2KB	H File	9/17/01 11:38 AM
WrTexChem.h	3KB	H File	9/17/01 11:38 AM

113 object(s) | 351 KB (Disk free space: 0 bytes) | My Computer

FIG. 57

Exploring -D:\FEM Builder 1.2\Source\FemLib\Interfaces

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
CRdCrackCombustionData.cpp	4KB	CPP File	9/17/01 11:38 AM
CWrCrackCombustionData.cpp	2KB	CPP File	9/17/01 11:38 AM
RdAbaqus.cpp	38KB	CPP File	9/17/01 11:38 AM
RdAbaqusFIF.cpp	2KB	CPP File	9/17/01 11:38 AM
GElementSFOF.h	6KB	CPP File	9/17/01 11:38 AM
RdAbaqusInput.cpp	45KB	CPP File	9/17/01 11:38 AM
RdAnsysCDB.cpp	64KB	CPP File	9/17/01 11:38 AM
RdAnsysRes.cpp	35KB	CPP File	9/17/01 11:38 AM
RdAschar.cpp	21KB	CPP File	9/17/01 11:38 AM
RdCCM.cpp	4KB	CPP File	9/17/01 11:38 AM
RdDCDCA.cpp	4KB	CPP File	9/17/01 11:38 AM
RdFemDB.cpp	43KB	CPP File	9/17/01 11:38 AM
RdFluent.cpp	46KB	CPP File	9/17/01 11:38 AM
RdFluentJ10.cpp	23KB	CPP File	9/17/01 11:38 AM
RdGridGen.cpp	6KB	CPP File	9/17/01 11:38 AM
RdIdeasMS.cpp	49KB	CPP File	9/17/01 11:38 AM
RdideasMSMaterial.cpp	27KB	CPP File	9/17/01 11:38 AM
RdPatran.cpp	29KB	CPP File	9/17/01 11:38 AM
RdRecess.cpp	37KB	CPP File	9/17/01 11:38 AM
RdSharp.h	27KB	CPP File	9/17/01 11:38 AM
RdSinda.cpp	5KB	CPP File	9/17/01 11:38 AM
RdSinGen.cpp	4KB	CPP File	9/17/01 11:38 AM
RdTexChem.cpp	15KB	CPP File	9/17/01 11:38 AM

38 object(s) | 936 KB (Disk free space: 0 bytes) | My Computer

FIG. 58

Exploring -D:\FEM Builder 1.2\Source\FemLib\Interfaces

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
RdIdeasMSMaterial.cpp	27KB	CPP File	9/17/01 11:38 AM
RdPatran.h	29KB	CPP File	9/17/01 11:38 AM
RdRecess.cpp	37KB	CPP File	9/17/01 11:38 AM
RdSharp.cpp	27KB	CPP File	9/17/01 11:38 AM
RdSinda.cpp	5KB	CPP File	9/17/01 11:38 AM
RdSinGen.cpp	4KB	CPP File	9/17/01 11:38 AM
RdTexChem.cpp	15KB	CPP File	9/17/01 11:38 AM
RWAbaqus.cpp	10KB	CPP File	9/17/01 11:38 AM
RWAnsys.cpp	20KB	CPP File	9/17/01 11:38 AM
RWIdeasMS.cpp	19KB	CPP File	9/17/01 11:38 AM
WrAbaqus.cpp	36KB	CPP File	9/17/01 11:38 AM
WrAnsysCDB.h	34KB	CPP File	9/17/01 11:38 AM
WrCCM.cpp	6KB	CPP File	9/17/01 11:38 AM
WrCDCA.cpp	12KB	CPP File	9/17/01 11:38 AM
WrFemDB.cpp	37KB	CPP File	9/17/01 11:38 AM
WrFluent.cpp	65KB	CPP File	9/17/01 11:38 AM
WrIdeasMS.cp	44KB	CPP File	9/17/01 11:38 AM
WrIdeasMSMaterial.cpp	27KB	CPP File	9/17/01 11:38 AM
WrPatran.cpp	33KB	CPP File	9/17/01 11:38 AM
WrRecess.cpp	35KB	CPP File	9/17/01 11:38 AM
WrSinda.cpp	19KB	CPP File	9/17/01 11:38 AM
WrTexChem.cpp	22KB	CPP File	9/17/01 11:38 AM

38 object(s) | 936 KB (Disk free space: 0 bytes) | My Computer

FIG. 59

Exploring -D:\FEM Builder 1.2\Source\Fem\FemPython

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FEDoc.cpp	1KB	CPP File	9/17/01 11:38 AM
FEDoc.h	1KB	H File	9/17/01 11:38 AM
FEM.cpp	6KB	CPP File	9/17/01 11:38 AM
FEM_ExtractFileNames.hpp	4KB	CPP File	9/17/01 11:38 AM
FEM_FEDoc.hpp	6KB	HPP File	9/17/01 11:38 AM
FEM_FEModel.hpp	31KB	HPP File	9/17/01 11:38 AM
FEM_FEModelBC.hpp	32KB	HPP File	9/17/01 11:38 AM
FEM_FEModelColor.hpp	2KB	HPP File	9/17/01 11:38 AM
FEM_FEModelCurve.hpp	17KB	HPP File	9/17/01 11:38 AM
FEM_FEModelDelete.hpp	3KB	HPP File	9/17/01 11:38 AM
FEM_FEModelElement.hpp	13KB	HPP File	9/17/01 11:38 AM
FEM_FEModelEquation.hpp	6KB	HPP File	9/17/01 11:38 AM
FEM_FEModelGroup.hpp	3KB	HPP File	9/17/01 11:38 AM
FEM_FEModelInterface.hpp	32KB	HPP File	9/17/01 11:38 AM
FEM_FEModelList.hpp	5KB	HPP File	9/17/01 11:38 AM
FEM_FEModelMaterial.hpp	3KB	HPP File	9/17/01 11:38 AM
FEM_FEModelMesh.hpp	15KB	HPP File	9/17/01 11:38 AM
FEM_FEModelMoveCopy.hpp	11KB	HPP File	9/17/01 11:38 AM
FEM_FEModelNode.hpp	7KB	HPP File	9/17/01 11:38 AM
FEM_FEModelPoint.hpp	5KB	HPP File	9/17/01 11:38 AM
FEM_FEModelPostprocessing.hpp	15KB	HPP File	9/17/01 11:38 AM
FEM_FEModelRegion.hpp	2KB	HPP File	9/17/01 11:38 AM
FEM_FEModelResult.hpp	11KB	HPP File	9/17/01 11:38 AM

65 object(s) | 556 KB (Disk free space: 0 bytes) | My Computer

FIG. 60

Exploring -D:\FEM Builder 1.2\Source\FemPython

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FEM_FEModelSubModel.hpp	3KB	HPP File	9/17/01 11:38 AM
FEM_FEModelSurface.hpp	11KB	HPP File	9/17/01 11:38 AM
FEM_FEModelSweep.hpp	2KB	HPP File	9/17/01 11:38 AM
FEM_FEModelSystem.hpp	3KB	HPP File	9/17/01 11:38 AM
FEM_FEModelTools.hpp	3KB	HPP File	9/17/01 11:38 AM
FEM_FEModelVolume.hpp	9KB	HPP File	9/17/01 11:38 AM
FEM_FEProperty.hpp	9KB	HPP File	9/17/01 11:38 AM
FEM_FEPropertyGroup.hpp	7KB	HPP File	9/17/01 11:38 AM
FEM_FEResult.hpp	15KB	HPP File	9/17/01 11:38 AM
FEModel.cpp	5KB	CPP File	9/17/01 11:38 AM
FEModel.h	19KB	H File	9/17/01 11:38 AM
FEModelBC.cpp	39KB	CPP File	9/17/01 11:38 AM
FEModelColor.cpp	2KB	CPP File	9/17/01 11:38 AM
FEModelCurve.cpp	14KB	CPP File	9/17/01 11:38 AM
FEModelDelete.cpp	3KB	CPP File	9/17/01 11:38 AM
FEModelElement.cpp	14KB	CPP File	9/17/01 11:38 AM
FEModelEquation.cpp	3KB	CPP File	9/17/01 11:38 AM
FEModelGroup.cpp	5KB	CPP File	9/17/01 11:38 AM
FEModelInterface.cpp	49KB	CPP File	9/17/01 11:38 AM
FEModelList.cpp	5KB	CPP File	9/17/01 11:38 AM
FEModelMaterial.cpp	1KB	CPP File	9/17/01 11:38 AM
FEModelMesh.cpp	22KB	CPP File	9/17/01 11:38 AM
FEModelMoveCopy.cpp	13KB	CPP File	9/17/01 11:38 AM

65 object(s) | 556KB (Disk free space: 0 bytes) | My Computer

FIG. 61

Exploring -D:\FEM Builder 1.2\Source\FemPython

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
FEModelMaterial.cpp	1KB	CPP File	9/17/01 11:38 AM
FEModelMesh.cpp	22KB	CPP File	9/17/01 11:38 AM
FEModelMoveCopy.cpp	13KB	CPP File	9/17/01 11:38 AM
FEModelNode.cpp	7KB	CPP File	9/17/01 11:38 AM
FEModelPoint.cpp	5KB	CPP File	9/17/01 11:38 AM
FEModelPostprocessing.cpp	14KB	CPP File	9/17/01 11:38 AM
FEModelRegion.cpp	2KB	CPP File	9/17/01 11:38 AM
FEModelResult.cpp	9KB	CPP File	9/17/01 11:38 AM
FEModelSubModel.cpp	3KB	CPP File	9/17/01 11:38 AM
FEModelSurface.cpp	11KB	CPP File	9/17/01 11:38 AM
FEModelSweep.cpp	2KB	CPP File	9/17/01 11:38 AM
FEModelSystem.cpp	4KB	CPP File	9/17/01 11:38 AM
FEModelVolume.cpp	8KB	CPP File	9/17/01 11:38 AM
FemPython.dsp	10KB	DSP File	9/17/01 11:38 AM
FemPython.dsw	3KB	DSW File	9/17/01 11:38 AM
FEProperty.cpp	4KB	CPP File	9/17/01 11:38 AM
FEProperty.h	2KB	H File	9/17/01 11:38 AM
FEPropertyGroup.cpp	3KB	CPP File	9/17/01 11:38 AM
FEPropertyGroup.h	1KB	H File	9/17/01 11:38 AM
FEResult.cpp	10KB	CPP File	9/17/01 11:38 AM
FEResult.h	2KB	H File	9/17/01 11:38 AM
FEStddfn.h	1KB	H File	9/17/01 11:38 AM

65 object(s) | 556KB (Disk free space: 0 bytes) | My Computer

FIG. 62

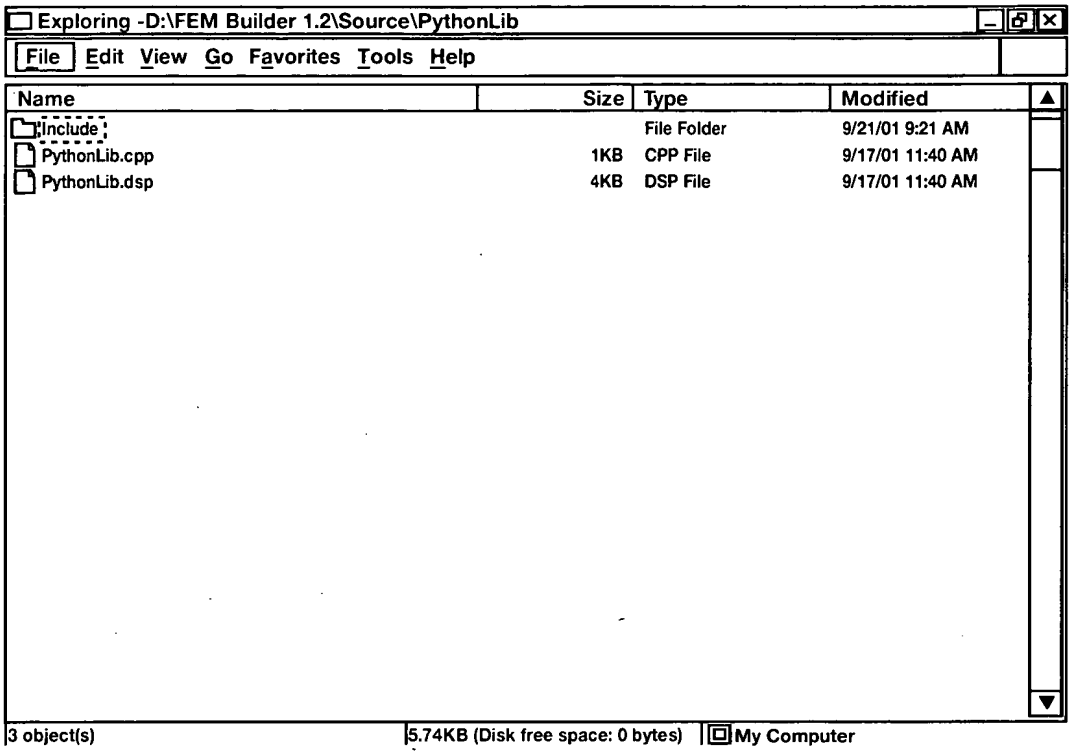

Exploring -D:\FEM Builder 1.2\Source\PythonLib
File Edit View Go Favorites Tools Help
Name
Size
Type
Modified
Include
File Folder
9/21/01 9:21 AM
PythonLib.cpp
1KB
CPP File
9/17/01 11:40 AM
PythonLib.dsp
4KB
DSP File
9/17/01 11:40 AM
3 object(s)
5.74KB (Disk free space: 0 bytes)
My Computer

FIG. 63

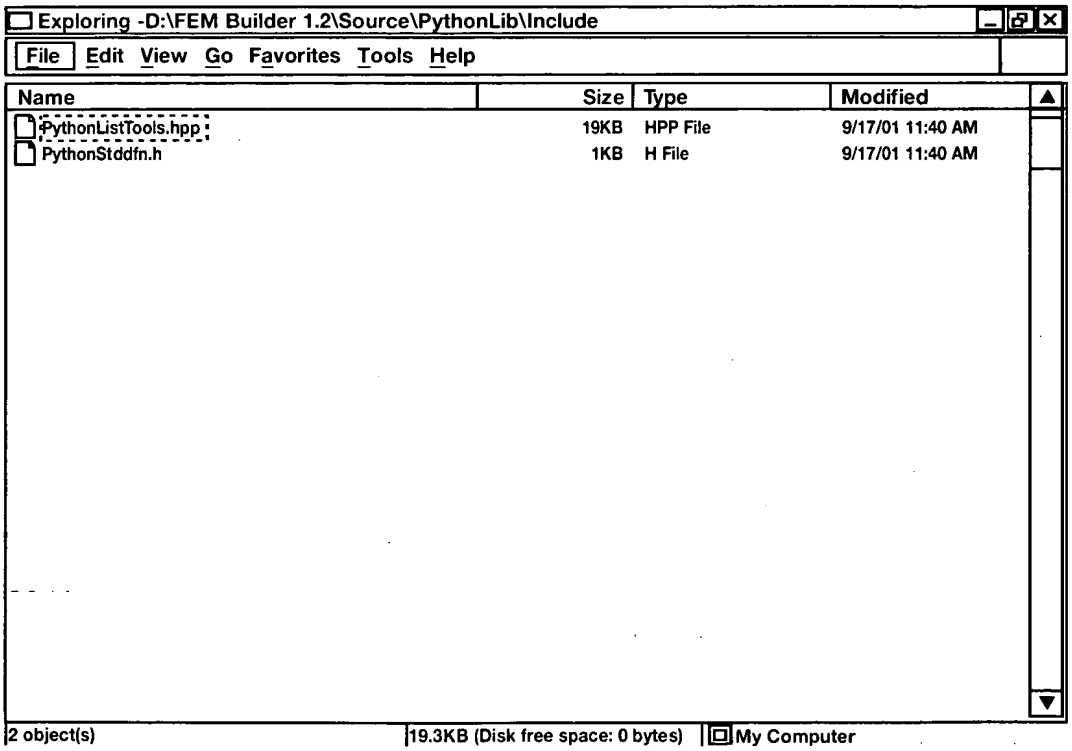

Exploring -D:\FEM Builder 1.2\Source\PythonLib\Include
File Edit View Go Favorites Tools Help
Name
Size
Type
Modified
PythonListTools.hpp
19KB
HPP File
9/17/01 11:40 AM
PythonStddfn.h
1KB
H File
9/17/01 11:40 AM
2 object(s)
19.3KB (Disk free space: 0 bytes)
My Computer

FIG. 64

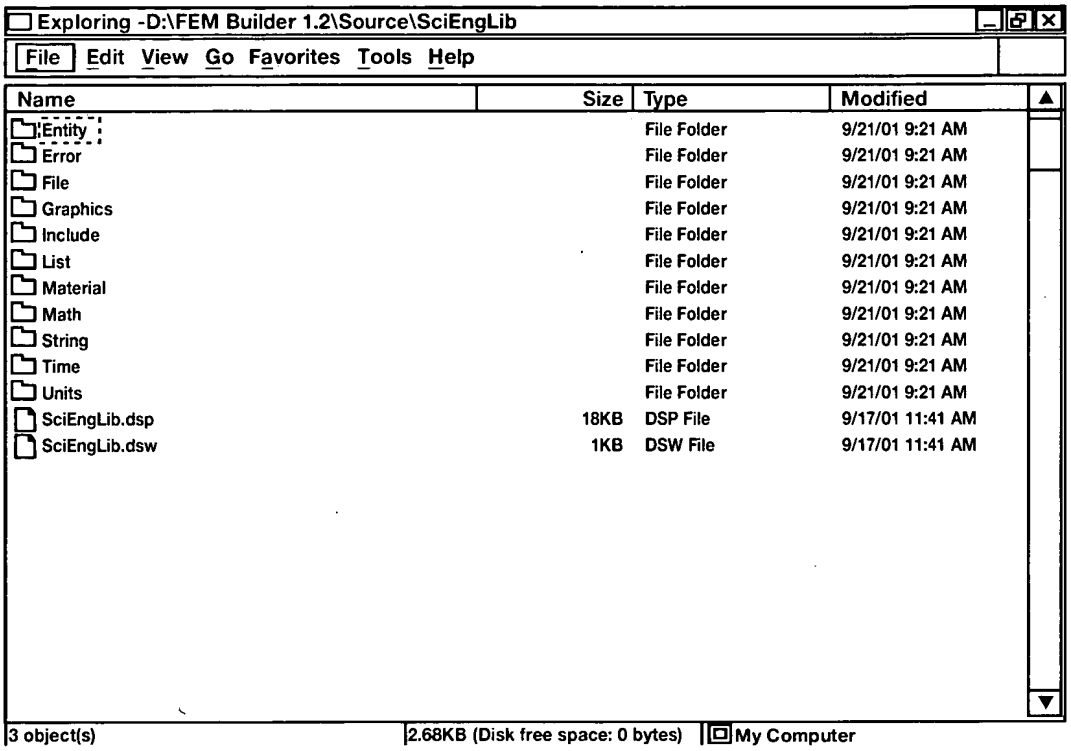

Exploring -D:\FEM Builder 1.2\Source\SciEngLib
File Edit View Go Favorites Tools Help
Name Size Type Modified
Entity File Folder 9/21/01 9:21 AM
Error File Folder 9/21/01 9:21 AM
File File Folder 9/21/01 9:21 AM
Graphics File Folder 9/21/01 9:21 AM
Include File Folder 9/21/01 9:21 AM
List File Folder 9/21/01 9:21 AM
Material File Folder 9/21/01 9:21 AM
Math File Folder 9/21/01 9:21 AM
String File Folder 9/21/01 9:21 AM
Time File Folder 9/21/01 9:21 AM
Units File Folder 9/21/01 9:21 AM
SciEngLib.dsp 18KB DSP File 9/17/01 11:41 AM
SciEngLib.dsw 1KB DSW File 9/17/01 11:41 AM
3 object(s)
2.68KB (Disk free space: 0 bytes)
My Computer

FIG. 65

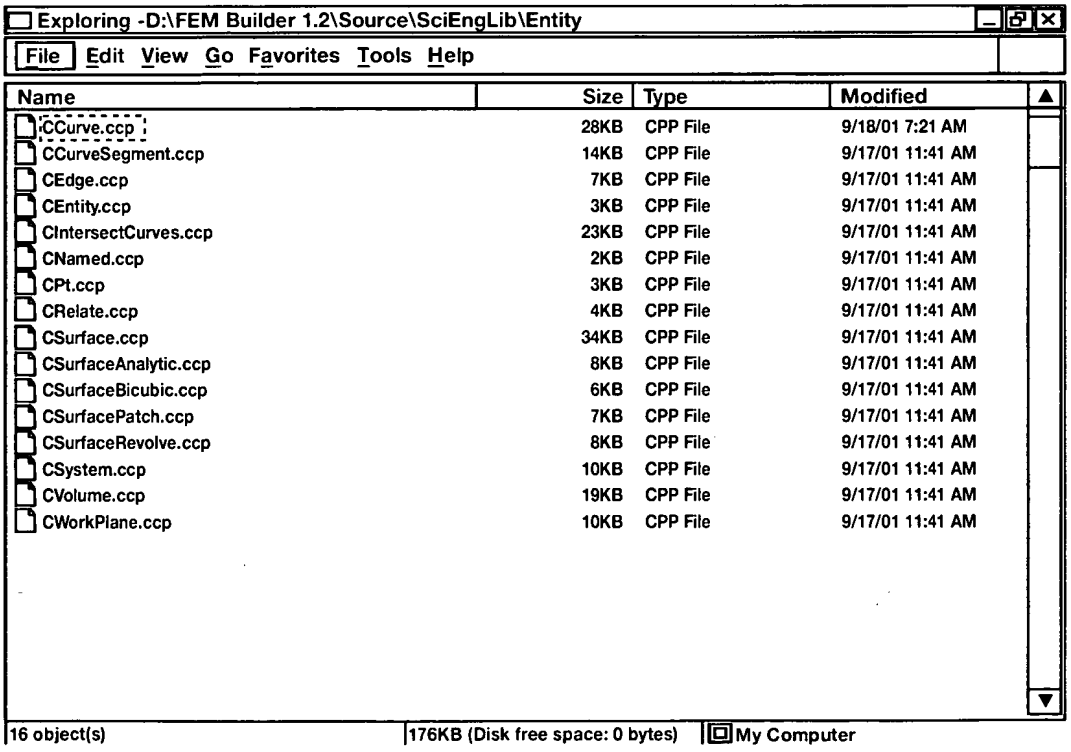

Exploring -D:\FEM Builder 1.2\Source\SciEngLib\Entity
File Edit View Go Favorites Tools Help
Name Size Type Modified
CCurve.ccp 28KB CPP File 9/18/01 7:21 AM
CCurveSegment.ccp 14KB CPP File 9/17/01 11:41 AM
CEdge.ccp 7KB CPP File 9/17/01 11:41 AM
CEntity.ccp 3KB CPP File 9/17/01 11:41 AM
CIntersectCurves.ccp 23KB CPP File 9/17/01 11:41 AM
CNamed.ccp 2KB CPP File 9/17/01 11:41 AM
CPt.ccp 3KB CPP File 9/17/01 11:41 AM
CRelate.ccp 4KB CPP File 9/17/01 11:41 AM
CSurface.ccp 34KB CPP File 9/17/01 11:41 AM
CSurfaceAnalytic.ccp 8KB CPP File 9/17/01 11:41 AM
CSurfaceBicubic.ccp 6KB CPP File 9/17/01 11:41 AM
CSurfacePatch.ccp 7KB CPP File 9/17/01 11:41 AM
CSurfaceRevolve.ccp 8KB CPP File 9/17/01 11:41 AM
CSystem.ccp 10KB CPP File 9/17/01 11:41 AM
CVolume.ccp 19KB CPP File 9/17/01 11:41 AM
CWorkPlane.ccp 10KB CPP File 9/17/01 11:41 AM
16 object(s)
176KB (Disk free space: 0 bytes)
My Computer

FIG. 66

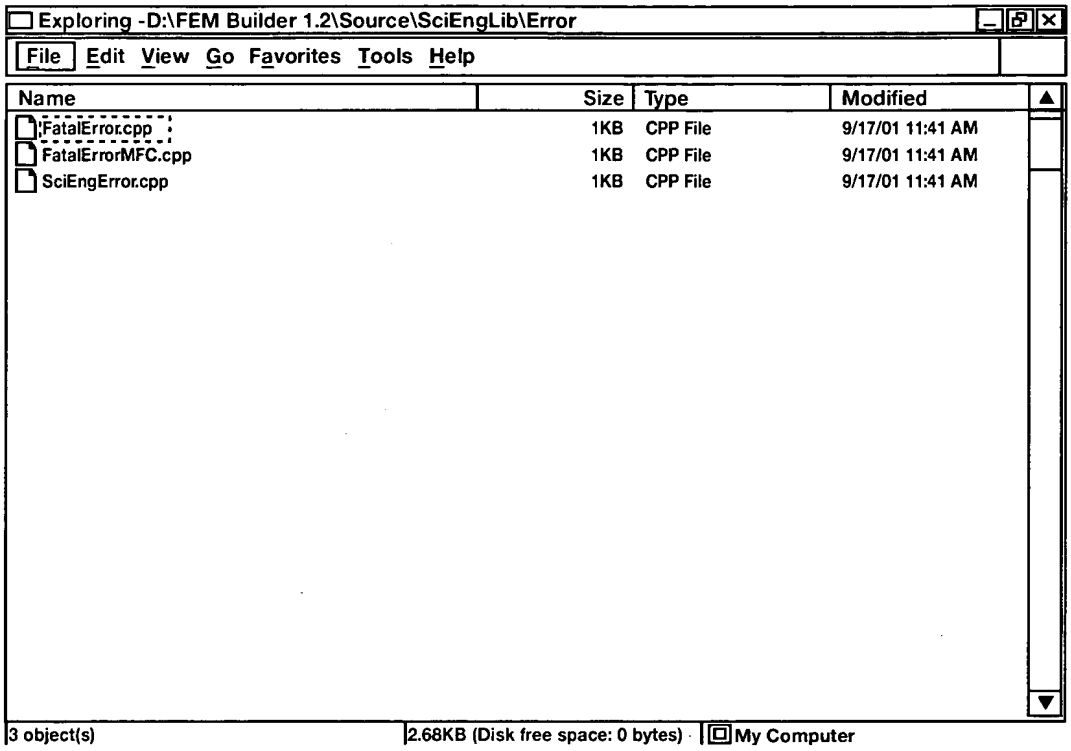

Exploring -D:\FEM Builder 1.2\Source\SciEngLib\Error
File Edit View Go Favorites Tools Help
Name Size Type Modified
FatalError.cpp 1KB CPP File 9/17/01 11:41 AM
FatalErrorMFC.cpp 1KB CPP File 9/17/01 11:41 AM
SciEngError.cpp 1KB CPP File 9/17/01 11:41 AM
3 object(s)
2.68KB (Disk free space: 0 bytes)
My Computer

FIG. 67

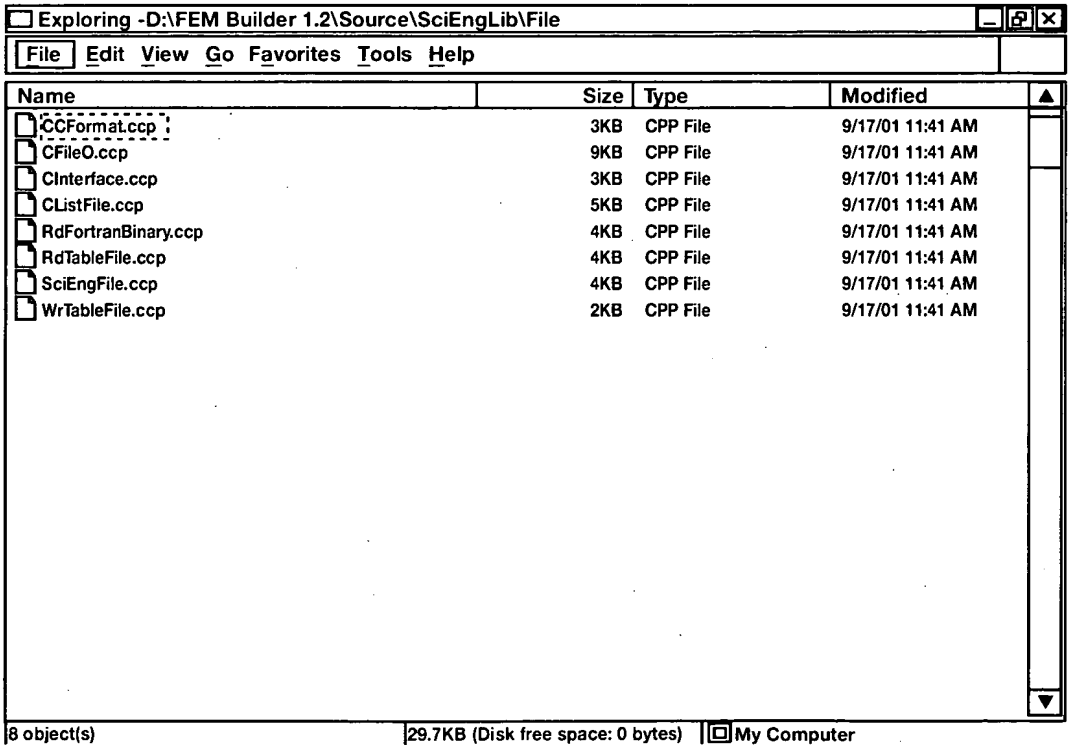

Exploring -D:\FEM Builder 1.2\Source\SciEngLib\File
File Edit View Go Favorites Tools Help
Name Size Type Modified
CCFormat.ccp 3KB CPP File 9/17/01 11:41 AM
CFileO.ccp 9KB CPP File 9/17/01 11:41 AM
CInterface.ccp 3KB CPP File 9/17/01 11:41 AM
CListFile.ccp 5KB CPP File 9/17/01 11:41 AM
RdFortranBinary.ccp 4KB CPP File 9/17/01 11:41 AM
RdTableFile.ccp 4KB CPP File 9/17/01 11:41 AM
SciEngFile.ccp 4KB CPP File 9/17/01 11:41 AM
WrTableFile.ccp 2KB CPP File 9/17/01 11:41 AM
8 object(s)
29.7KB (Disk free space: 0 bytes)
My Computer

FIG. 68

Exploring -D:\FEM Builder 1.2\Source\SciEngLib\Graphics

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
CColorButton.cpp	6KB	CPP File	9/17/01 11:41 AM
CDeviceDC.cpp	9KB	CPP File	9/17/01 11:41 AM
CDisplayList.cpp	20KB	CPP File	9/17/01 11:41 AM
CDisplayListHL.cpp	12KB	CPP File	9/17/01 11:41 AM
CMSWinDC.cpp	9KB	CPP File	9/17/01 11:41 AM
COpenGLDC.cpp	22KB	CPP File	9/21/01 7:04 AM
CRubberBand.cpp	6KB	CPP File	9/17/01 11:41 AM
CViewDC.cpp	45KB	CPP File	9/21/01 7:04 AM
CXYPlotAxis.cpp	8KB	CPP File	9/17/01 11:41 AM
CXYPlotCurve.cpp	19KB	CPP File	9/17/01 11:41 AM
CXYPlotAData.cpp	10KB	CPP File	9/17/01 11:41 AM
DrawSymbol.cpp	12KB	CPP File	9/17/01 11:41 AM
SciEngColor.cpp	7KB	CPP File	9/17/01 11:41 AM
SciEngDraw.cpp	2KB	CPP File	9/17/01 11:41 AM

14 object(s) | 181KB (Disk free space: 0 bytes) | My Computer

FIG. 69

Exploring -D:\FEM Builder 1.2\Source\SciEngLib\Include

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
CAArray.h	3KB	H File	9/17/01 11:41 AM
CAArray.hpp	4KB	HPP File	9/17/01 11:41 AM
CAList.h	2KB	H File	9/17/01 11:41 AM
CAList.hpp	4KB	HPP File	9/17/01 11:41 AM
CCFormat.h	2KB	H File	9/17/01 11:41 AM
CChemicalReaction.h	3KB	H File	9/17/01 11:41 AM
CChemicalSpecie.h	2KB	H File	9/17/01 11:41 AM
CColorButton.h	3KB	H File	9/17/01 11:41 AM
CCompositeProperty.h	3KB	H File	9/17/01 11:41 AM
CCurve.h	4KB	H File	9/17/01 11:41 AM
CCurveFit.h	2KB	H File	9/17/01 11:41 AM
CCurveSegment.h	3KB	H File	9/17/01 11:41 AM
CDateD.h	2KB	H File	9/17/01 11:41 AM
CDeviceDC.h	5KB	H File	9/17/01 11:41 AM
CDisplayList.h	14KB	H File	9/17/01 11:41 AM
CDisplayListHL.h	3KB	H File	9/17/01 11:41 AM
CDoubleList.h	2KB	H File	9/17/01 11:41 AM
CEdge.h	2KB	H File	9/17/01 11:41 AM
CEList.h	3KB	H File	9/17/01 11:41 AM
CEList.hpp	8KB	HPP File	9/17/01 11:41 AM
CEllipticIntegral.h	2KB	H File	9/17/01 11:41 AM
CEntity.h	4KB	H File	9/17/01 11:41 AM
CFileIO.h	4KB	H File	9/17/01 11:41 AM

117 object(s) | 288KB (Disk free space: 0 bytes) | My Computer

FIG. 70

Exploring -D:\FEM Builder 1.2\Source\SciEngLib\Include

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
CFindRoot.h	2KB	H File	9/17/01 11:41 AM
CHash.h	3KB	H File	9/17/01 11:41 AM
CIntergrate.h	3KB	H File	9/17/01 11:41 AM
CIntegrateODE.h	5KB	H File	9/17/01 11:41 AM
CInterface.h	2KB	H File	9/17/01 11:41 AM
CIntersectCurves.h	2KB	H File	9/17/01 11:41 AM
CIntList.h	2KB	H File	9/17/01 11:41 AM
CLeastSquareFit.h	1KB	H File	9/17/01 11:41 AM
CLEList.h	2KB	H File	9/17/01 11:41 AM
CLEList.hpp	6KB	HPP File	9/17/01 11:41 AM
CLinkedList.h	2KB	H File	9/17/01 11:41 AM
CLinkedList.hpp	6KB	HPP File	9/17/01 11:41 AM
CListFile.h	2KB	H File	9/17/01 11:41 AM
CMaterialDB.h	2KB	H File	9/17/01 11:41 AM
CMatID.h	3KB	H File	9/17/01 11:41 AM
CMSWinDC.h	3KB	H File	9/17/01 11:41 AM
CNamed.h	2KB	H File	9/17/01 11:41 AM
CNEList.h	2KB	H File	9/17/01 11:41 AM
CNEList.hpp	4KB	HPP File	9/17/01 11:41 AM
CNewtonRaphson.h	2KB	H File	9/17/01 11:41 AM
CNTable.hpp	3KB	HPP File	9/17/01 11:41 AM
COpenGLDC.h	5KB	H File	9/21/01 7:04 AM
COptimize1D.h	3KB	H File	9/17/01 11:41 AM

117 object(s) | 288KB (Disk free space: 0 bytes) | My Computer

FIG. 71

Exploring -D:\FEM Builder 1.2\Source\SciEngLib\Include

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
COptimizeND.h	3KB	H File	9/17/01 11:41 AM
CPrpAnnotation.h	2KB	H File	9/17/01 11:41 AM
CPrpAttr.h	2KB	H File	9/17/01 11:41 AM
CPrpDB.h	3KB	H File	9/17/01 11:41 AM
CPrpGroup.h	2KB	H File	9/17/01 11:41 AM
CPrpNote.h	1KB	H File	9/17/01 11:41 AM
CPrpTable.h	2KB	H File	9/17/01 11:41 AM
CPt.h	2KB	H File	9/17/01 11:41 AM
CRelate.h	2KB	H File	9/17/01 11:41 AM
CRelate.hpp	1KB	HPP File	9/17/01 11:41 AM
CRubberBand.h	2KB	H File	9/17/01 11:41 AM
CSet.h	2KB	H File	9/17/01 11:41 AM
CSet.hpp	6KB	HPP File	9/17/01 11:41 AM
CSetArray.h	6KB	H File	9/17/01 11:41 AM
CSpline.h	2KB	H File	9/17/01 11:41 AM
CSurface.hpp	11KB	HPP File	9/17/01 11:41 AM
CSurfaceEdge.h	2KB	H File	9/17/01 11:41 AM
CSurfaceFit.h	3KB	H File	9/17/01 11:41 AM
CSurfacePatch.h	3KB	H File	9/17/01 11:41 AM
CSystem.h	3KB	H File	9/17/01 11:41 AM
CTable.h	4KB	H File	9/17/01 11:41 AM
CTableCell.h	3KB	H File	9/17/01 11:41 AM
CText.h	3KB	H File	9/17/01 11:41 AM

117 object(s) | 288KB (Disk free space: 0 bytes) | My Computer

FIG. 72

Exploring -D:\FEM Builder 1.2\Source\SciEngLib\Include

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
CTextFont.h	2KB	H File	9/17/01 11:41 AM
CTextFontDialog.h	1KB	H File	9/17/01 11:41 AM
CTimeDate.h	2KB	H File	9/17/01 11:41 AM
CTimeMS.h	2KB	H File	9/17/01 11:41 AM
CUnitSystem.h	4KB	H File	9/17/01 11:41 AM
CViewDC.h	10KB	H File	9/21/01 7:04 AM
CViewDCDef.h	2KB	H File	9/17/01 11:41 AM
CVolume.h	4KB	H File	9/17/01 11:41 AM
CWorkPlane.h	4KB	H File	9/17/01 11:41 AM
CXYPlotAxis.h	3KB	H File	9/17/01 11:41 AM
CXYPlotCurve.h	5KB	H File	9/17/01 11:41 AM
CXYPlotData.h	3KB	H File	9/21/01 7:04 AM
DrawSymbol.h	2KB	H File	9/17/01 11:41 AM
MatProperty.h	2KB	H File	9/17/01 11:41 AM
MatPropertyInfo.h	2KB	H File	9/17/01 11:41 AM
RdFortranBinary.h	3KB	H File	9/17/01 11:41 AM
RdMaterialDB.h	2KB	H File	9/17/01 11:41 AM
RdPrpDB.h	2KB	H File	9/17/01 11:41 AM
RdTableFile.h	2KB	H File	9/17/01 11:41 AM
SciEngBit.h	1KB	H File	9/17/01 11:41 AM
SciEngBit.hpp	1KB	HPP File	9/17/01 11:41 AM
SciEngColor.h	3KB	H File	9/17/01 11:41 AM
SciEngCSystem.h	2KB	H File	9/17/01 11:41 AM

117 object(s) | 288KB (Disk free space: 0 bytes) | My Computer

FIG. 73

Exploring -D:\FEM Builder 1.2\Source\SciEngLib\Include

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
SciEngCurve.h	3KB	H File	9/17/01 11:41 AM
SciEngCurveFit.h	7KB	H File	9/17/01 11:41 AM
SciEngDraw.h	1KB	H File	9/17/01 11:41 AM
SciEngError.h	1KB	H File	9/17/01 11:41 AM
SciEngFile.h	2KB	H File	9/17/01 11:41 AM
SciEngLib.h	3KB	H File	9/17/01 11:41 AM
SciEngMath.h	4KB	H File	9/17/01 11:41 AM
SciEngMath.hpp	4KB	HPP File	9/17/01 11:41 AM
SciEngMatrix.h	3KB	H File	9/17/01 11:41 AM
SciEngMove.h	1KB	H File	9/17/01 11:41 AM
SciEngMove.hpp	1KB	HPP File	9/17/01 11:41 AM
SciEngPoint.h	4KB	H File	9/17/01 11:41 AM
SciEngPolygon.h	1KB	H File	9/17/01 11:41 AM
SciEngResult.h	2KB	H File	9/17/01 11:41 AM
SciEngSort.h	1KB	H File	9/17/01 11:41 AM
SciEngSort.hpp	5KB	HPP File	9/17/01 11:41 AM
SciEngStddfn.h	3KB	H File	9/17/01 11:41 AM
SciEngStr.h	3KB	H File	9/17/01 11:41 AM
SciEngSurface.h	1KB	H File	9/17/01 11:41 AM
SciEngVector.h	2KB	H File	9/17/01 11:41 AM
SciEngVector.hpp	1KB	HPP File	9/17/01 11:41 AM
StdAfx.h	1KB	H File	9/17/01 11:41 AM
WrMaterialDB.h	1KB	H File	9/17/01 11:41 AM

117 object(s) | 288KB (Disk free space: 0 bytes) | My Computer

FIG. 74

Exploring -D:\FEM Builder 1.2\Source\SciEngLib\Include

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
SciEngError.h	1KB	H File	9/17/01 11:41 AM
SciEngFile.h	2KB	H File	9/17/01 11:41 AM
SciEngLib.h	3KB	H File	9/17/01 11:41 AM
SciEngMath.h	4KB	H File	9/17/01 11:41 AM
SciEngMath.hpp	4KB	HPP File	9/17/01 11:41 AM
SciEngMatrix.h	3KB	H File	9/17/01 11:41 AM
SciEngMove.h	1KB	H File	9/17/01 11:41 AM
SciEngMove.hpp	1KB	HPP File	9/17/01 11:41 AM
SciEngPoint.h	4KB	H File	9/17/01 11:41 AM
SciEngPolygon.h	1KB	H File	9/17/01 11:41 AM
SciEngResult.h	2KB	H File	9/17/01 11:41 AM
SciEngSort.h	1KB	H File	9/17/01 11:41 AM
SciEngSort.hpp	5KB	HPP File	9/17/01 11:41 AM
SciEngStddfn.h	3KB	H File	9/17/01 11:41 AM
SciEngStr.h	3KB	H File	9/17/01 11:41 AM
SciEngSurface.h	1KB	H File	9/17/01 11:41 AM
SciEngVector.h	2KB	H File	9/17/01 11:41 AM
SciEngVector.hpp	1KB	HPP File	9/17/01 11:41 AM
StdAfx.h	1KB	H File	9/17/01 11:41 AM
WrMaterialDB.h	1KB	H File	9/17/01 11:41 AM
WrPrpDB.h	2KB	H File	9/17/01 11:41 AM
WrTableFile.h	1KB	H File	9/17/01 11:41 AM

117 object(s) | 288KB (Disk free space: 0 bytes) | My Computer

FIG. 75

Exploring -D:\FEM Builder 1.2\Source\SciEngLib\List

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
CDoubleList.cpp	3KB	CPP File	9/17/01 11:41 AM
CHash.cpp	17KB	CPP File	9/17/01 11:41 AM
CIntList.cpp	4KB	CPP File	9/17/01 11:41 AM

3 object(s) | 21.4KB (Disk free space: 0 bytes) | My Computer

FIG. 76

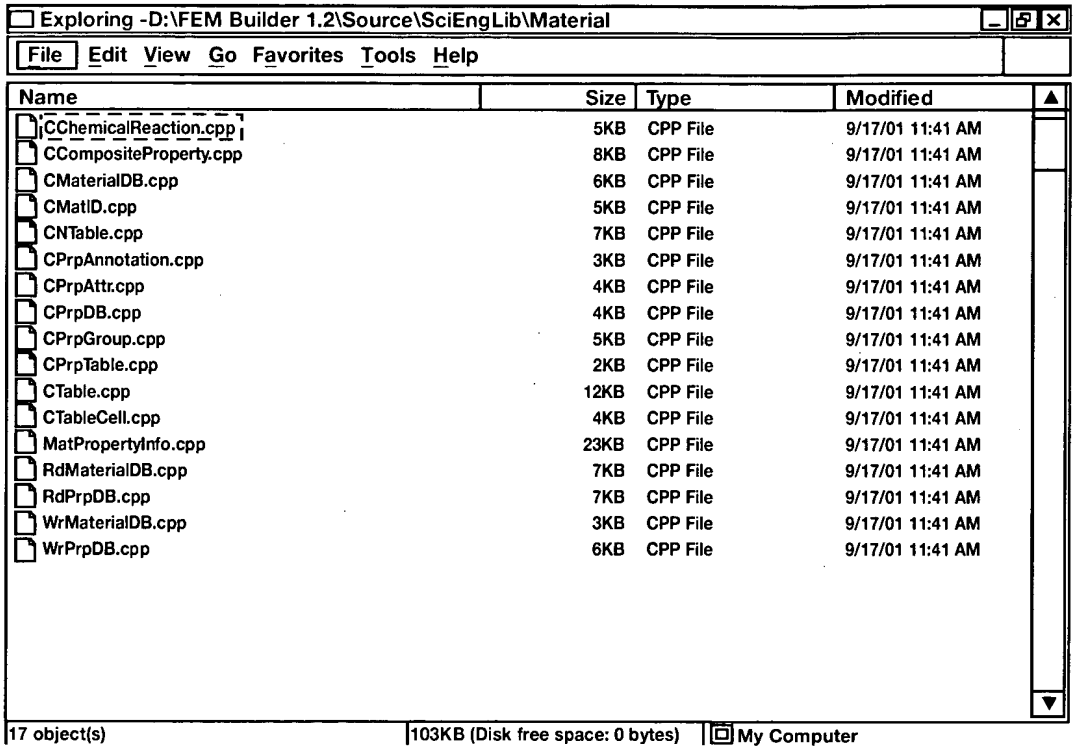

Exploring -D:\FEM Builder 1.2\Source\SciEngLib\Material
File Edit View Go Favorites Tools Help
Name Size Type Modified
CChemicalReaction.cpp 5KB CPP File 9/17/01 11:41 AM
CCompositeProperty.cpp 8KB CPP File 9/17/01 11:41 AM
CMaterialDB.cpp 6KB CPP File 9/17/01 11:41 AM
CMatID.cpp 5KB CPP File 9/17/01 11:41 AM
CNTable.cpp 7KB CPP File 9/17/01 11:41 AM
CPrpAnnotation.cpp 3KB CPP File 9/17/01 11:41 AM
CPrpAttr.cpp 4KB CPP File 9/17/01 11:41 AM
CPrpDB.cpp 4KB CPP File 9/17/01 11:41 AM
CPrpGroup.cpp 5KB CPP File 9/17/01 11:41 AM
CPrpTable.cpp 2KB CPP File 9/17/01 11:41 AM
CTable.cpp 12KB CPP File 9/17/01 11:41 AM
CTableCell.cpp 4KB CPP File 9/17/01 11:41 AM
MatPropertyInfo.cpp 23KB CPP File 9/17/01 11:41 AM
RdMaterialDB.cpp 7KB CPP File 9/17/01 11:41 AM
RdPrpDB.cpp 7KB CPP File 9/17/01 11:41 AM
WrMaterialDB.cpp 3KB CPP File 9/17/01 11:41 AM
WrPrpDB.cpp 6KB CPP File 9/17/01 11:41 AM
17 object(s)
103KB (Disk free space: 0 bytes)
My Computer

FIG. 77

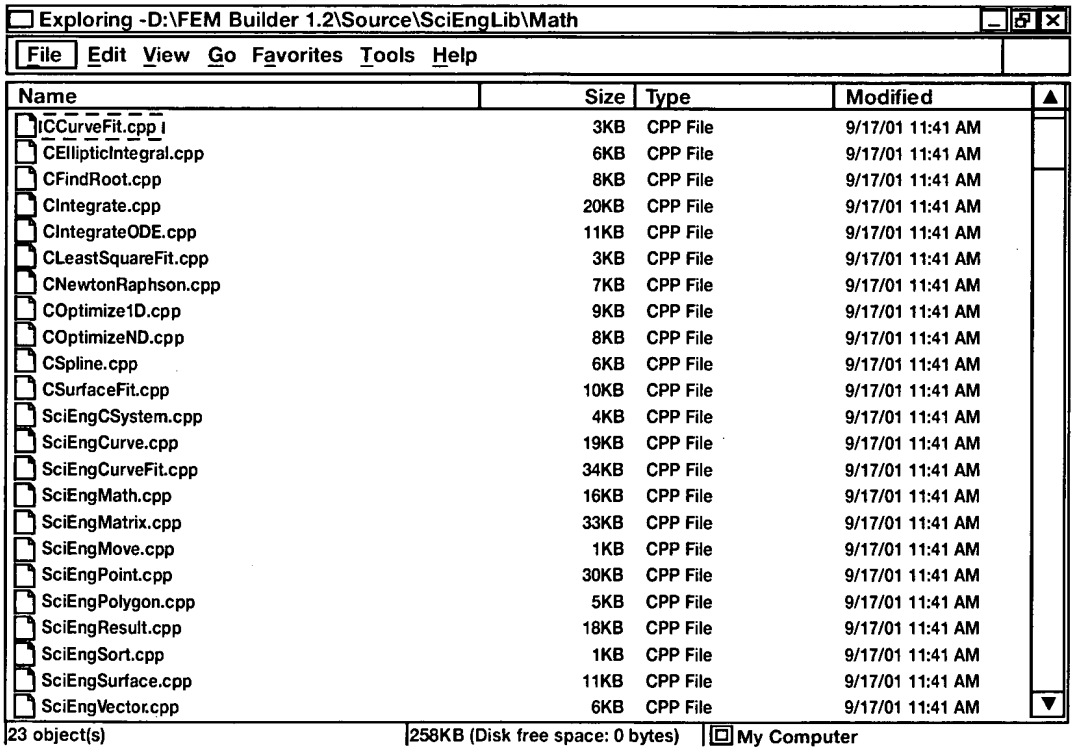

Exploring -D:\FEM Builder 1.2\Source\SciEngLib\Math
File Edit View Go Favorites Tools Help
Name Size Type Modified
CCurveFit.cpp 3KB CPP File 9/17/01 11:41 AM
CEllipticIntegral.cpp 6KB CPP File 9/17/01 11:41 AM
CFindRoot.cpp 8KB CPP File 9/17/01 11:41 AM
CIntegrate.cpp 20KB CPP File 9/17/01 11:41 AM
CIntegrateODE.cpp 11KB CPP File 9/17/01 11:41 AM
CLeastSquareFit.cpp 3KB CPP File 9/17/01 11:41 AM
CNewtonRaphson.cpp 7KB CPP File 9/17/01 11:41 AM
COptimize1D.cpp 9KB CPP File 9/17/01 11:41 AM
COptimizeND.cpp 8KB CPP File 9/17/01 11:41 AM
CSpline.cpp 6KB CPP File 9/17/01 11:41 AM
CSurfaceFit.cpp 10KB CPP File 9/17/01 11:41 AM
SciEngCSystem.cpp 4KB CPP File 9/17/01 11:41 AM
SciEngCurve.cpp 19KB CPP File 9/17/01 11:41 AM
SciEngCurveFit.cpp 34KB CPP File 9/17/01 11:41 AM
SciEngMath.cpp 16KB CPP File 9/17/01 11:41 AM
SciEngMatrix.cpp 33KB CPP File 9/17/01 11:41 AM
SciEngMove.cpp 1KB CPP File 9/17/01 11:41 AM
SciEngPoint.cpp 30KB CPP File 9/17/01 11:41 AM
SciEngPolygon.cpp 5KB CPP File 9/17/01 11:41 AM
SciEngResult.cpp 18KB CPP File 9/17/01 11:41 AM
SciEngSort.cpp 1KB CPP File 9/17/01 11:41 AM
SciEngSurface.cpp 11KB CPP File 9/17/01 11:41 AM
SciEngVector.cpp 6KB CPP File 9/17/01 11:41 AM
23 object(s)
258KB (Disk free space: 0 bytes)
My Computer

FIG. 78

Exploring -D:\FEM Builder 1.2\Source\SciEngLib\Math

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
CELipticIntegral.cpp	6KB	CPP File	9/17/01 11:41 AM
CFindRoot.cpp	8KB	CPP File	9/17/01 11:41 AM
CIntegrate.cpp	20KB	CPP File	9/17/01 11:41 AM
CIntegrateODE.cpp	11KB	CPP File	9/17/01 11:41 AM
CLeastSquareFit.cpp	3KB	CPP File	9/17/01 11:41 AM
CNewtonRaphson.cpp	7KB	CPP File	9/17/01 11:41 AM
COptimize1D.cpp	9KB	CPP File	9/17/01 11:41 AM
COptimizeND.cpp	8KB	CPP File	9/17/01 11:41 AM
CSpline.cpp	6KB	CPP File	9/17/01 11:41 AM
CSurfaceFit.cpp	10KB	CPP File	9/17/01 11:41 AM
SciEngCSystem.cpp	4KB	CPP File	9/17/01 11:41 AM
SciEngCurve.cpp	19KB	CPP File	9/17/01 11:41 AM
SciEngCurveFit.cpp	34KB	CPP File	9/17/01 11:41 AM
SciEngMath.cpp	16KB	CPP File	9/17/01 11:41 AM
SciEngMatrix.cpp	33KB	CPP File	9/17/01 11:41 AM
SciEngMove.cpp	1KB	CPP File	9/17/01 11:41 AM
SciEngPoint.cpp	30KB	CPP File	9/17/01 11:41 AM
SciEngPolygon.cpp	5KB	CPP File	9/17/01 11:41 AM
SciEngResult.cpp	18KB	CPP File	9/17/01 11:41 AM
SciEngSort.cpp	1KB	CPP File	9/17/01 11:41 AM
SciEngSurface.cpp	11KB	CPP File	9/17/01 11:41 AM
SciEngVector.cpp	6KB	CPP File	9/17/01 11:41 AM

23 object(s) | 258KB (Disk free space: 0 bytes) | My Computer

FIG. 79

Exploring -D:\FEM Builder 1.2\Source\SciEngLib\String

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
CText.cpp	5KB	CPP File	9/17/01 11:41 AM
CTextFont.cpp	2KB	CPP File	9/17/01 11:41 AM
CTextFontDialog.cpp	2KB	CPP File	9/17/01 11:41 AM
SciEngStr.cpp	16KB	CPP File	9/17/01 11:41 AM

4 object(s) | 23.9KB (Disk free space: 0 bytes) | My Computer

FIG. 80

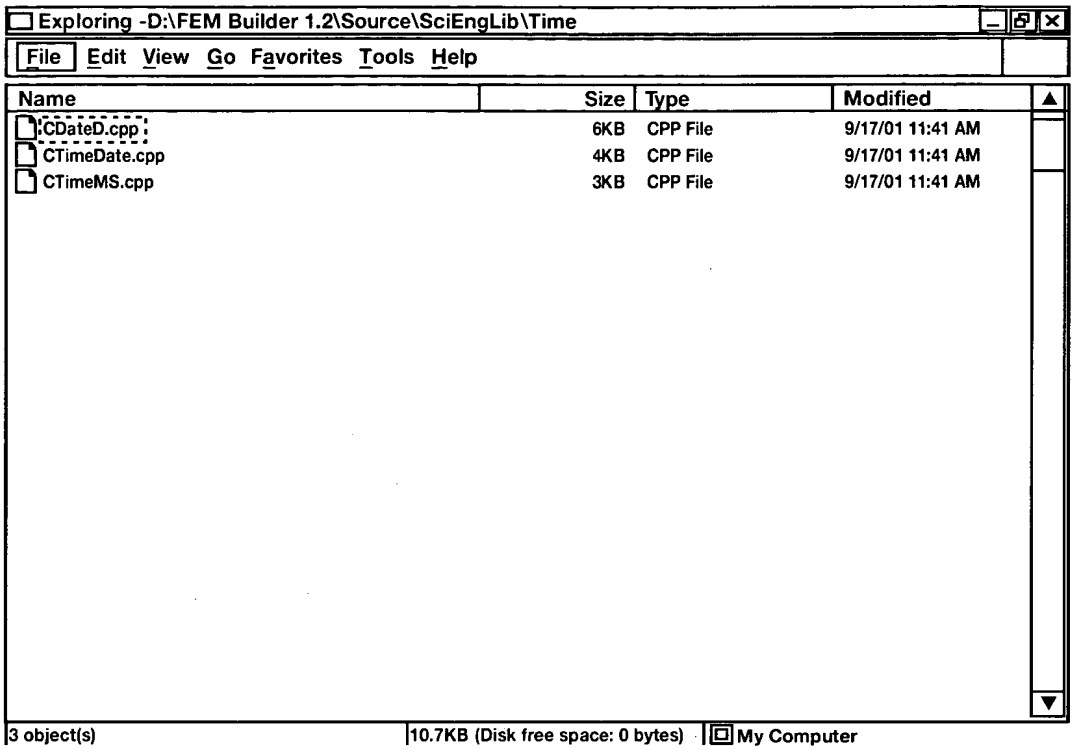

Exploring -D:\FEM Builder 1.2\Source\SciEngLib\Time
File Edit View Go Favorites Tools Help
Name
Size
Type
Modified
CDateD.cpp
6KB
CPP File
9/17/01 11:41 AM
CTimeDate.cpp
4KB
CPP File
9/17/01 11:41 AM
CTimeMS.cpp
3KB
CPP File
9/17/01 11:41 AM
3 object(s)
10.7KB (Disk free space: 0 bytes)
My Computer

FIG. 81

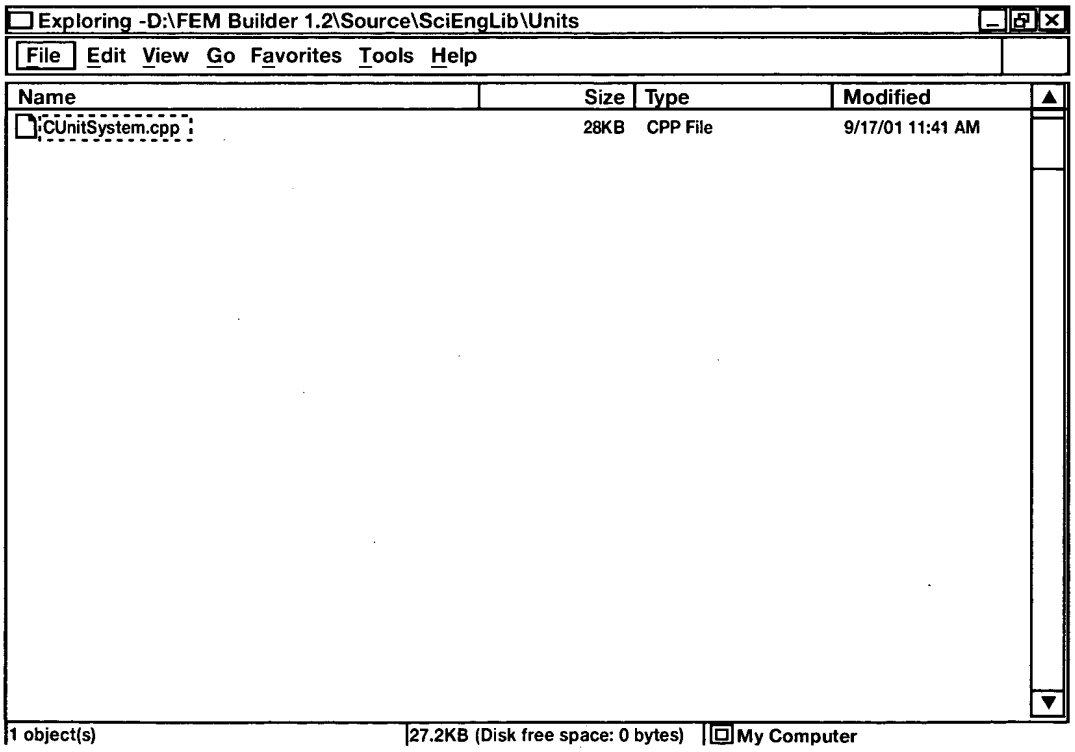

Exploring -D:\FEM Builder 1.2\Source\SciEngLib\Units
File Edit View Go Favorites Tools Help
Name
Size
Type
Modified
CUnitSystem.cpp
28KB
CPP File
9/17/01 11:41 AM
1 object(s)
27.2KB (Disk free space: 0 bytes)
My Computer

FIG. 82

Exploring -D:\FEM Builder 1.2\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
Python		File Folder	9/21/01 9:21 AM
Results		File Folder	9/21/01 9:21 AM
Ablation-Stucture.unv	1,858KB	UNV File	9/17/01 11:34 AM
Ablation-Thermal-Aft.plt	415KB	PLT File	9/17/01 11:34 AM
Ablation-Thermal-Fwd.plt	1,640KB	PLT File	9/17/01 11:34 AM
Axisym1.fdb	8KB	FDB File	9/17/01 11:34 AM
Axisym1.fil	40KB	FIL File	9/17/01 11:34 AM
Axisym1.resinp	4KB	RESINP File	9/17/01 11:34 AM
Axisym1.unv	11KB	UNV File	9/17/01 11:34 AM
Axisym1BC.fdb	7KB	FDB File	9/17/01 11:34 AM
Axisym1Caxa.fil	216KB	FIL File	9/17/01 11:34 AM
Axisym1Caxa.inp	4KB	INP File	9/17/01 11:34 AM
Axisym1CAXAResults.fdb	52KB	FDB File	9/17/01 11:34 AM
Axisym1CentResults.fdb	31KB	FDB File	9/17/01 11:34 AM
Axisym1Results.fdb	30KB	FDB File	9/17/01 11:34 AM
BoundaryListCheck1.fdb	4KB	FDB File	9/17/01 11:34 AM
CheckConnectivity.fdb	30KB	FDB File	9/17/01 11:34 AM
ChemicalReaction.fdb	1KB	FDB File	9/17/01 11:34 AM
ConcidentNodes.fdb	2KB	FDB File	9/17/01 11:34 AM
Constrain2d.fdb	13KB	FDB File	9/17/01 11:34 AM
Constrain3d.fdb	34KB	FDB File	9/17/01 11:34 AM
cp1d_bb.resinp	41KB	RESINP File	9/17/01 11:34 AM
cp1d_bb.resout	83KB	RESOUT File	9/17/01 11:34 AM

187 object(s) | 49.2MB (Disk free space: 0 bytes) | My Computer

FIG. 83

Exploring -D:\FEM Builder 1.2\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
cp1d_bls.resinp	7KB	RESINP File	9/17/01 11:35 AM
cp1d_bls.resout	245KB	RESOUT File	9/17/01 11:35 AM
cp1d_blt.resinp	8KB	RESINP File	9/17/01 11:35 AM
cp1d_blt.resout	246KB	RESOUT File	9/17/01 11:35 AM
cp1d_cbs.resinp	60KB	RESINP File	9/17/01 11:35 AM
cp1d_cbs.resout	98KB	RESOUT File	9/17/01 11:35 AM
cp1d_cbt.resinp	61KB	RESINP File	9/17/01 11:35 AM
cp1d_cbt.resout	96KB	RESOUT File	9/17/01 11:35 AM
Crack1FQ.fdb	38KB	FDB File	9/17/01 11:35 AM
Crack1FQ.fil	140KB	FIL File	9/17/01 11:35 AM
Crack1FQResults.fdb	175KB	FDB File	9/17/01 11:35 AM
Crack2DFFSL.fdb	16KB	FDB File	9/17/01 11:35 AM
Crack2DFFSL.fil	108KB	FIL File	9/17/01 11:35 AM
Crack2DFFSL.inp	6KB	INP File	9/17/01 11:35 AM
Crack2DFFSQ.fdb	32KB	FDB File	9/17/01 11:35 AM
Crack2DFFSQ.fil	199KB	FIL File	9/17/01 11:35 AM
Crack2DFFSQ.inp	13KB	INP File	9/17/01 11:35 AM
Crack2DFZL.fdb	113KB	FDB File	9/17/01 11:35 AM
Crack2DFZL.fil	1,707KB	FIL File	9/17/01 11:35 AM
Crack2DFZL.inp	44KB	INP File	9/17/01 11:35 AM
Crack2DFZQ.fdb	243KB	FDB File	9/17/01 11:35 AM
Crack2DFZQ.fil	3,487KB	FIL File	9/17/01 11:35 AM
Crack2DFZQ.inp	102KB	INP File	9/17/01 11:35 AM

187 object(s) | 49.2MB (Disk free space: 0 bytes) | My Computer

FIG. 84

Exploring -D:\FEM Builder 1.2\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
Crack2DPS.fdb	32KB	FDB File	9/17/01 11:35 AM
Crack2DSFML.fdb	18KB	FDB File	9/17/01 11:35 AM
Crack2DSFML.fil	104KB	FIL File	9/17/01 11:35 AM
Crack2DSFML.inp	7KB	INP File	9/17/01 11:35 AM
Crack2DSFMQ.fdb	37KB	FDB File	9/17/01 11:35 AM
Crack2DSFMQ.fil	213KB	FIL File	9/17/01 11:35 AM
Crack2DSFMQ.inp	15KB	INP File	9/17/01 11:35 AM
Crack2DSZL.fdb	75KB	PDB File	9/17/01 11:35 AM
Crack2DSZL.fil	1,065KB	FIL File	9/17/01 11:35 AM
Crack2DSZL.inp	29KB	INP File	9/17/01 11:35 AM
Crack2DSZQ.fdb	153KB	FDB File	9/17/01 11:35 AM
Crack2DSZQ.fil	2,175KB	FIL File	9/17/01 11:35 AM
Crack2DSZQ.inp	63KB	INP File	9/17/01 11:35 AM
Crack3DFFSL.fdb	47KB	FDB File	9/17/01 11:35 AM
Crack3DFFSL.fil	449KB	FIL File	9/17/01 11:35 AM
Crack3DFFSL.inp	20KB	INP File	9/17/01 11:35 AM
Crack3DFFSQ.fdb	128KB	FDB File	9/17/01 11:35 AM
Crack3DFFSQ.fil	1,154KB	FIL File	9/17/01 11:35 AM
Crack3DFFSQ.inp	62KB	INP File	9/17/01 11:35 AM
Crack3DPS.fdb	114KB	FDB File	9/17/01 11:35 AM
Crack3DSFML.fdb	58KB	FDB File	9/17/01 11:35 AM
Crack3DSFML.fil	519KB	FIL File	9/17/01 11:35 AM
Crack3DSFML.inp	25KB	INP File	9/17/01 11:35 AM

187 object(s) | 49.2MB (Disk free space: 0 bytes) | My Computer

FIG. 85

Exploring -D:\FEM Builder 1.2\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
Crack3DSFMQ.fdb	157KB	FDB File	9/17/01 11:35 AM
Crack3DSFMQ.fil	1,333KB	FIL File	9/17/01 11:35 AM
Crack3DSFMQ.inp	77KB	INP File	9/17/01 11:35 AM
CrackSBRAMSubScaleAxial.fdb	296KB	FDB File	9/17/01 11:35 AM
CrackSBRAMSubScaleAxial.fil	2,097KB	FIL File	9/17/01 11:35 AM
CrackSBRAMSubScaleAxial.inp	127KB	INP File	9/17/01 11:35 AM
CrackSBRAMSubScaleRadial.fdb	320KB	FDB File	9/17/01 11:35 AM
CrackSBRAMSubScaleRadial.fil	2,319KB	FIL File	9/17/01 11:35 AM
CrackSBRAMSubScaleRadial.inp	130KB	INP File	9/17/01 11:35 AM
CrackSBRAMSubScaleRadial3D.fdb	1,230KB	FDB File	9/17/01 11:35 AM
CrackSBRAMSubScaleRadial3D.fil	13,507KB	FIL File	9/17/01 11:35 AM
CrackSBRAMSubScaleRadial3D.inp	673KB	INP File	9/17/01 11:35 AM
CurveFit1.dat	1KB	Movie Clip	9/17/01 11:35 AM
CurveFit2.dat	1KB	Movie Clip	9/17/01 11:35 AM
CurveFit3.dat	1KB	Movie Clip	9/17/01 11:35 AM
CurveFit4.dat	1KB	Movie Clip	9/17/01 11:35 AM
CurveFit5.dat	1KB	Movie Clip	9/17/01 11:35 AM
EdgeNotched2D.fdb	275KB	FDB File	9/17/01 11:35 AM
EdgeNotched3D.fdb	594KB	FDB File	9/17/01 11:35 AM
EditColor.fdb	9KB	FDB File	9/17/01 11:35 AM
ElementDistortion2D.fdb	3KB	FDB File	9/17/01 11:35 AM
ElementDistortion3D.fdb	5KB	FDB File	9/17/01 11:35 AM
Example4.fdb	47KB	FDB File	9/17/01 11:35 AM

187 object(s) | 49.2MB (Disk free space: 0 bytes) | My Computer

FIG. 86

Exploring -D:\FEM Builder 1.2\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
InterfaceFemDB_1.fdb	13KB	FDB File	9/17/01 11:35 AM
InterfaceFemDB_2.fdb	15KB	FDB File	9/17/01 11:35 AM
InterfaceIdeas_1.unv	31KB	UNV File	9/17/01 11:35 AM
LessFluid.fdb	1,507KB	FDB File	9/17/01 11:35 AM
LessFluid-CustomSolve.jou	1KB	JOU File	9/17/01 11:35 AM
LessSolid.fdb	620KB	FDB File	9/17/01 11:35 AM
LineElement.fdb	2KB	FDB File	9/17/01 11:35 AM
MatProp1.pdb	2KB	PDB File	9/17/01 11:35 AM
MatProp2.pdb	1KB	PDB File	9/17/01 11:35 AM
MeshSurface.fdb	20KB	FDB File	9/17/01 11:35 AM
MeshVolume.fdb	24KB	FDB File	9/17/01 11:35 AM
MixingElbow.cas	129KB	CAS File	9/17/01 11:35 AM
MixingElbow.dat	212KB	Movie Clip	9/17/01 11:35 AM
MixingElbow.fdb	657KB	FDB File	9/17/01 11:35 AM
Nozzle1.jou	1KB	JOU File	9/17/01 11:35 AM
Nozzle1_ascii.cas	263KB	CAS File	9/17/01 11:35 AM
Nozzle1_ascii.dat	980KB	Movie Clip	9/17/01 11:35 AM
NozzleModel.cas	172KB	CAS File	9/17/01 11:35 AM
NozzleModel.dat	365KB	Movie Clip	9/17/01 11:35 AM
P&NRegions.fdb	4KB	FDB File	9/17/01 11:35 AM
PipeFlow.cas	28KB	CAS File	9/17/01 11:35 AM
PipeFlow.dat	11KB	Movie Clip	9/17/01 11:35 AM
PipeFlow.fdb	7KB	FDB File	9/17/01 11:35 AM

187 object(s) | 49.2MB (Disk free space: 0 bytes) | My Computer

FIG. 87

Exploring -D:\FEM Builder 1.2\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
PlaneE1.fdb	8KB	FDB File	9/17/01 11:35 AM
PlaneE1.fil	30KB	FIL File	9/17/01 11:35 AM
PlaneE1.inp	3KB	INP File	9/17/01 11:35 AM
PlaneE1.unv	12KB	UNV File	9/17/01 11:35 AM
PlaneE1G.fdb	9KB	FDB File	9/17/01 11:35 AM
PlaneE2.fdb	43KB	FDB File	9/17/01 11:35 AM
PlaneE2.fil	223KB	FIL File	9/17/01 11:35 AM
PlaneE2.resinp	16KB	RESINP File	9/17/01 11:35 AM
PlaneE2F.fdb	152KB	FDB File	9/17/01 11:35 AM
PlaneE2F.unv	159KB	UNV File	9/17/01 11:35 AM
PlaneS1.fdb	10KB	FDB File	9/17/01 11:35 AM
PlaneS2.fdb	65KB	FDB File	9/17/01 11:35 AM
PlaneS2.fil	386KB	FIL File	9/17/01 11:35 AM
RdAschar.plt	79KB	PLT File	9/17/01 11:35 AM
RdCCM_1.ccmout	2KB	CCMOUT File	9/17/01 11:35 AM
RdCDCA_1.cdcout	67KB	CDCOUT File	9/17/01 11:35 AM
RWAnsys1.cdb	20KB	CDB File	9/17/01 11:35 AM
RWAnsys2.cdb	7KB	CDB File	9/17/01 11:35 AM
RWIdeas1.unv	185KB	UNV File	9/17/01 11:35 AM
SBRAMSubScale.fdb	242KB	FDB File	9/17/01 11:35 AM
SelectByRegion.fdb	4KB	FDB File	9/17/01 11:35 AM
SelectCurve.fdb	14KB	FDB File	9/17/01 11:35 AM
SelectGroup.fdb	15KB	FDB File	9/17/01 11:35 AM

187 object(s) | 49.2MB (Disk free space: 0 bytes) | My Computer

FIG. 88

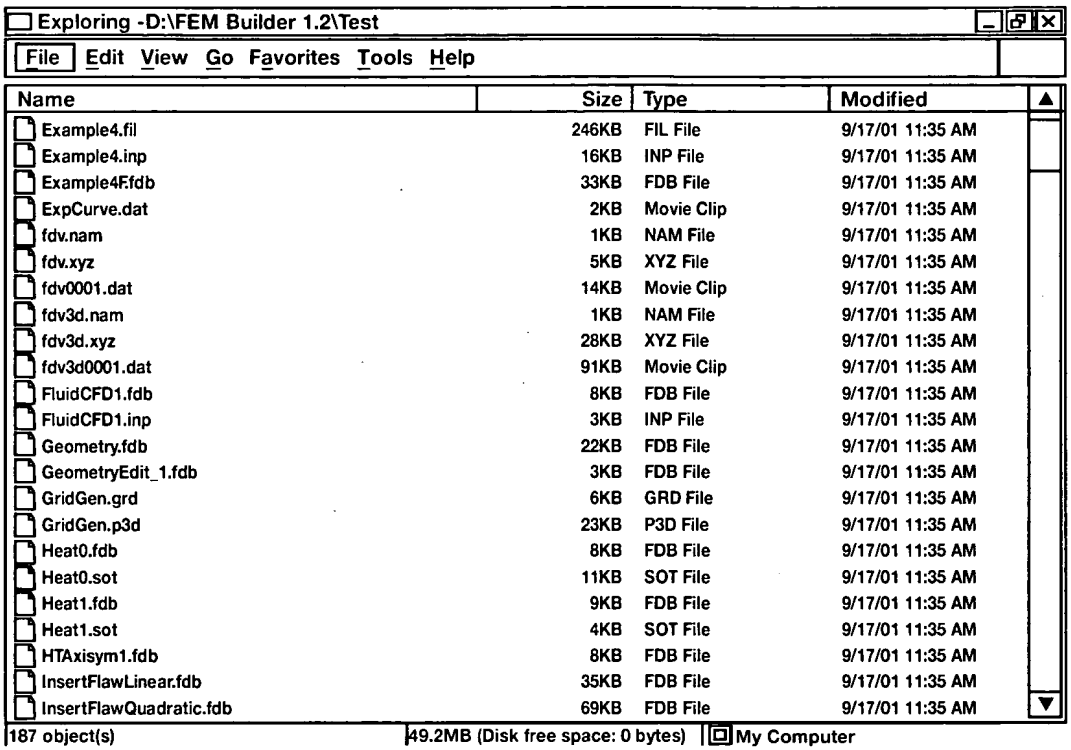

Exploring -D:\FEM Builder 1.2\Test
File Edit View Go Favorites Tools Help
Name Size Type Modified
Example4.fil 246KB FIL File 9/17/01 11:35 AM
Example4.inp 16KB INP File 9/17/01 11:35 AM
Example4F.fdb 33KB FDB File 9/17/01 11:35 AM
ExpCurve.dat 2KB Movie Clip 9/17/01 11:35 AM
fdv.nam 1KB NAM File 9/17/01 11:35 AM
fdv.xyz 5KB XYZ File 9/17/01 11:35 AM
fdv0001.dat 14KB Movie Clip 9/17/01 11:35 AM
fdv3d.nam 1KB NAM File 9/17/01 11:35 AM
fdv3d.xyz 28KB XYZ File 9/17/01 11:35 AM
fdv3d0001.dat 91KB Movie Clip 9/17/01 11:35 AM
FluidCFD1.fdb 8KB FDB File 9/17/01 11:35 AM
FluidCFD1.inp 3KB INP File 9/17/01 11:35 AM
Geometry.fdb 22KB FDB File 9/17/01 11:35 AM
GeometryEdit_1.fdb 3KB FDB File 9/17/01 11:35 AM
GridGen.grd 6KB GRD File 9/17/01 11:35 AM
GridGen.p3d 23KB P3D File 9/17/01 11:35 AM
Heat0.fdb 8KB FDB File 9/17/01 11:35 AM
Heat0.sot 11KB SOT File 9/17/01 11:35 AM
Heat1.fdb 9KB FDB File 9/17/01 11:35 AM
Heat1.sot 4KB SOT File 9/17/01 11:35 AM
HTAxisym1.fdb 8KB FDB File 9/17/01 11:35 AM
InsertFlawLinear.fdb 35KB FDB File 9/17/01 11:35 AM
InsertFlawQuadratic.fdb 69KB FDB File 9/17/01 11:35 AM
187 object(s)
49.2MB (Disk free space: 0 bytes)
My Computer

FIG. 89

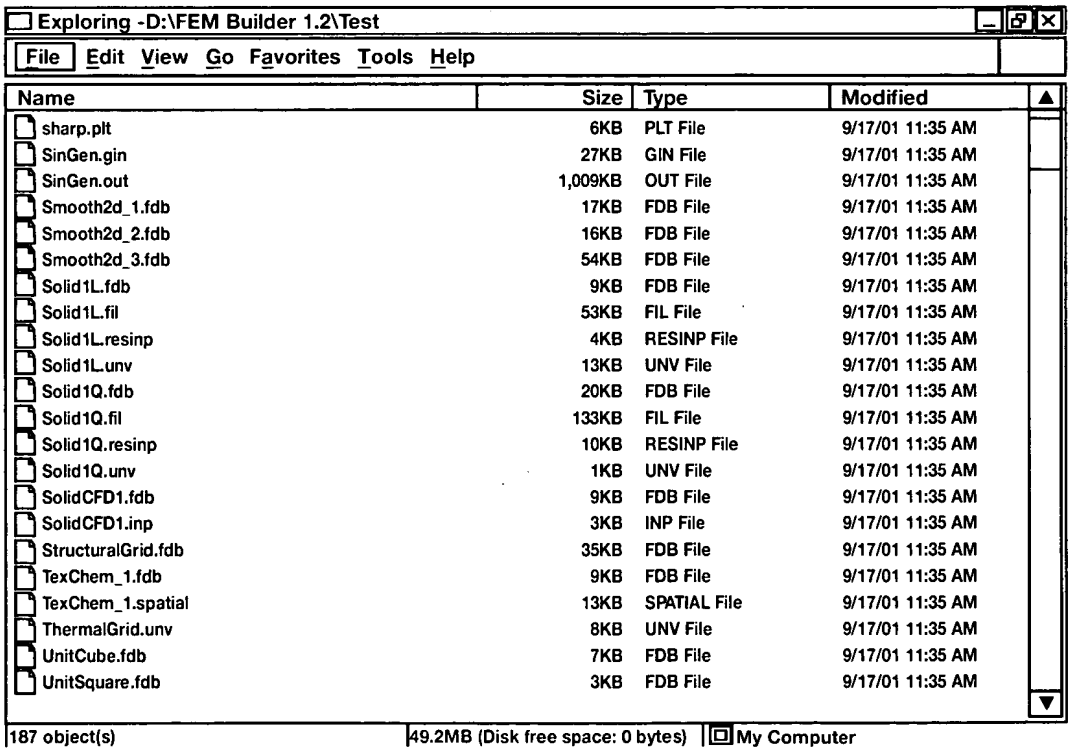

Exploring -D:\FEM Builder 1.2\Test
File Edit View Go Favorites Tools Help
Name Size Type Modified
sharp.plt 6KB PLT File 9/17/01 11:35 AM
SinGen.gin 27KB GIN File 9/17/01 11:35 AM
SinGen.out 1,009KB OUT File 9/17/01 11:35 AM
Smooth2d_1.fdb 17KB FDB File 9/17/01 11:35 AM
Smooth2d_2.fdb 16KB FDB File 9/17/01 11:35 AM
Smooth2d_3.fdb 54KB FDB File 9/17/01 11:35 AM
Solid1L.fdb 9KB FDB File 9/17/01 11:35 AM
Solid1L.fil 53KB FIL File 9/17/01 11:35 AM
Solid1L.resinp 4KB RESINP File 9/17/01 11:35 AM
Solid1L.unv 13KB UNV File 9/17/01 11:35 AM
Solid1Q.fdb 20KB FDB File 9/17/01 11:35 AM
Solid1Q.fil 133KB FIL File 9/17/01 11:35 AM
Solid1Q.resinp 10KB RESINP File 9/17/01 11:35 AM
Solid1Q.unv 1KB UNV File 9/17/01 11:35 AM
SolidCFD1.fdb 9KB FDB File 9/17/01 11:35 AM
SolidCFD1.inp 3KB INP File 9/17/01 11:35 AM
StructuralGrid.fdb 35KB FDB File 9/17/01 11:35 AM
TexChem_1.fdb 9KB FDB File 9/17/01 11:35 AM
TexChem_1.spatial 13KB SPATIAL File 9/17/01 11:35 AM
ThermalGrid.unv 8KB UNV File 9/17/01 11:35 AM
UnitCube.fdb 7KB FDB File 9/17/01 11:35 AM
UnitSquare.fdb 3KB FDB File 9/17/01 11:35 AM
187 object(s)
49.2MB (Disk free space: 0 bytes)
My Computer

FIG. 90

Exploring -D:\FEM Builder 1.2\Test

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
SelectN,E,F.fdb	8KB	FDB File	9/17/01 11:35 AM
SelectSurface.fdb	14KB	FDB File	9/17/01 11:35 AM
SelectSurface1.fdb	14KB	FDB File	9/17/01 11:35 AM
SelectVolume.fdb	14KB	FDB File	9/17/01 11:35 AM
sharp.plt	6KB	PLT File	9/17/01 11:35 AM
SinGen.gin	27KB	GIN File	9/17/01 11:35 AM
SinGen.out	1,009KB	OUT File	9/17/01 11:35 AM
Smooth2d_1.fdb	17KB	FDB File	9/17/01 11:35 AM
Smooth2d_2.fdb	16KB	FDB File	9/17/01 11:35 AM
Smooth2d_3.fdb	54KB	FDB File	9/17/01 11:35 AM
Solid1L.fdb	9KB	FDB File	9/17/01 11:35 AM
Solid1L.fil	53KB	FIL File	9/17/01 11:35 AM
Solid1L.resinp	4KB	RESINP File	9/17/01 11:35 AM
Solid1L.unv	13KB	UNV File	9/17/01 11:35 AM
Solid1Q.fdb	20KB	FDB File	9/17/01 11:35 AM
Solid1Q.fil	133KB	FIL File	9/17/01 11:35 AM
Solid1Q.resinp	10KB	RESINP File	9/17/01 11:35 AM
Solid1Q.unv	1KB	UNV File	9/17/01 11:35 AM
SolidCFD1.fdb	9KB	FDB File	9/17/01 11:35 AM
SolidCFD1.inp	3KB	INP File	9/17/01 11:35 AM
StructuralGrid.fdb	35KB	FDB File	9/17/01 11:35 AM
TexChem_1.fdb	9KB	FDB File	9/17/01 11:35 AM
TexChem_1.spatial	13KB	SPATIAL File	9/17/01 11:35 AM

187 object(s) | 49.2MB (Disk free space: 0 bytes) | My Computer

FIG. 91

Exploring -D:\Recess

File Edit View Go Favorites Tools Help

Name	Size	Type	Modified
Recess.bat	1KB	MS-DOS Batch File	9/19/01 2:57 PM
Recess.exe	5,089KB	Application	3/1/01 12:57 PM
RecessUser.doc	19KB	Microsoft Word Doc...	9/19/01 9:35 AM
RecessW.exe	24KB	Application	9/19/01 3:16 PM

4 object(s) | 5.01MB (Disk free space: 0 bytes) | My Computer

FIG. 92